STERLING BUYERS GUIDE

OF

ELECTRICAL SUPPLIES

Telephone
MAin 4571



Catalog No. 53

Here Since 1906

STERLING ELECTRIC CO.

33 South Fifth Street

Minneapolis Minnesota

TRADE CUSTOMS

CREDIT—We are always pleased to open accounts with firms of established credit rating. When sending first order kindly refer us to some bank or wholesale house with whom you have had credit dealings.

TERMS—30 days net, or cash discount will be allowed if remittance is received by the 10th proximo excepting on certain patented goods where the cash discount is specified to the contrary on our invoice.

QUOTATIONS—Written or verbal, subject to conditions of sale as listed herein:

a. Verbal quotations, unless accepted, expire same day quoted.

b. Written quotations expire Thirty (30) days from date issued and subject to termination by notice within that period.

PRICES—in this Catalogue are Subject to Change Without Notice and are F.O.B. Point of Shipment.

MERCHANDISE—will be billed at Market Price in effect at time of shipment.

ERRORS—All clerical and stenographic errors are subject to correction.

DAMAGE IN TRANSIT—In case of breakage or damage to glass or other materials in transit file claim with carrier. Have notation made on freight bill explaining damage. We cannot guarantee safe delivery of shipments as we hold the carriers' receipt showing the goods were received by them in good order and they assume all responsibility in delivering the goods to you.

RETURNED GOODS—Do not return material of any kind without first communicating with us and obtaining our approval for such return and the proper shipping directions.

STERLING ELECTRIC CO.

MINNEAPOLIS 2, MINN.

BUILDING WIRE

For use in open wiring between walls and ceilings of residential occupancies, concealed knob and tube work, flexible steel or rigid conduit wiring or in metal raceways in all types of buildings or occupancies in accordance with National Board of Fire Underwriters' regulations or municipality requirements. Regularly furnished in black, white, red, blue, green and yellow colors. Marked every foot with size, voltage and type, for ready identification and easy measuring.

RUBBER COVERED WIRE

TYPE R

600 Volt—Code Grade—60° C



Solid Single Braid

Size	Rubber Wall 64ths In.	Approx. O.D. Inches	Approx. Net Wgt. Per 1000 Ft.	Price Per 1000 Ft.
14	2	.184	26	$31.80
12	2	.201	35	44.40
10	3	.222	49	66.80
8	4	.281	80	107.40

Stranded Single Braid

14	2	.192	26	$42.80
12	2	.211	35	58.40
10	3	.237	49	80.20
8	4	.298	80	120.60

Stranded Double Braid

14	2	.208	30	$52.80
12	2	.231	40	67.00
10	3	.255	56	91.20
8	4	.316	90	127.80
6	4	.364	126	196.00
4	4	.417	190	286.00
2	4	.478	278	400.00
1	5	.563	364	530.00
1/0	5	.603	443	638.00
2/0	5	.649	540	768.00
3/0	5	.701	663	940.00
4/0	5	.759	814	1,146.00

Circular Mil Sizes

250,000	6	.838	962	$1,384.00
300,000	6	.903	1139	1,618.00
350,000	6	.954	1300	1,816.00
400,000	6	1.001	1473	2,040.00
500,000	6	1.088	1815	2,534.00
600,000	7	1.200	2177	3,134.00
750,000	7	1.303	2673	3,788.00
1,000,000	7	1.456	3530	4,930.00

RUBBER COVERED WIRE

TYPE RW-RH

600 Volt—Code Grade—60° C



Solid Single Braid

Size	Rubber Wall 64ths In.	Approx. O.D. Inches	Approx. Net Wgt. Per 1000 Ft.	Price Per 1000 Ft.
14	2	.152	21	$38.80
12	2	.169	28	56.60
10	3	.190	40	78.00
8	4	.249	79	126.80

Stranded Single Braid

14	2	.160	22	$50.80
12	2	.180	29	67.80
10	3	.203	42	95.40
8	4	.266	72	142.40

Stranded Double Braid

14	2	.208	30	$60.40
12	2	.231	40	78.00
10	3	.255	56	102.60
8	4	.316	90	149.20
6	4	.364	126	224.00
4	4	.417	190	316.00
2	4	.478	278	436.00
1	5	.563	364	564.00
1/0	5	.603	443	714.00
2/0	5	.649	540	842.00
3/0	5	.701	663	1,004.00
4/0	5	.759	814	1,304.00

Circular Mil Sizes

250,000	6	.838	962	$1,612.00
300,000	6	.903	1139	1,862.00
350,000	6	.954	1300	2,058.00
400,000	6	1.001	1473	2,326.00
500,000	6	1.088	1815	2,848.00
600,000	7	1.200	2177	3,576.00
750,000	7	1.303	2673	4,266.00
1,000,000	7	1.456	3530	5,612.00

TYPE TW SMALL DIAMETER

600 Volts, 60° C. (140° F.)



Size	Strands	Insulation Inches	Approx. O.D. Inches	Approx. Net Wt. Per 1000 Ft.	List Price Per 1000 Ft.
18TF	Sol.	2/64	.103	9	$26.60
16TF	Sol.	2/64	.114	13	31.00
18TF	7	2/64	.110	10	28.80
16TF	7	2/64	.123	14	34.00
14	Sol.	2/64	.130	20	33.00
12	Sol.	2/64	.147	28	46.20
10	Sol.	2/64	.168	41	69.00
8	Sol.	3/64	.227	69	112.20
8	7	3/64	.246	75	125.80
6	7	4/64	.314	119	204.00
4	7	4/64	.363	176	298.00
2	7	4/64	.423	263	410.00
1	19	5/64	.496	339	564.00

Size	Strands	Insulation Inches	Approx. O.D. Inches	Approx. Net Wt. Per 1000 Ft.	List Price Per 1000 Ft.
1/0	19	5/64	.537	416	$670.00
2/0	19	5/64	.582	514	800.00
3/0	19	5/64	.634	633	964.00
4/0	19	5/64	.692	787	1,186.00
250	37	6/64	.763	914	1,450.00
300	37	6/64	.819	1084	1,692.00
350	37	6/64	.870	1267	1,896.00
400	37	6/64	.916	1415	2,138.00
500	37	6/64	1.002	1751	2,646.00
600	61	7/64	1.112	2098	3,272.00
750	61	7/64	1.217	2590	3,974.00
1000	61	7/64	1.373	3414	5,146.00

FIXTURE WIRES

TYPE RF—RUBBER COVERED
TYPE TF—THERMOPLASTIC

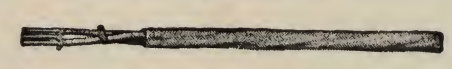
300 Volt—Code Grade



Stranded

Size	Rubber Wall 64ths In.	Approx. O.D. Inches	Approx. Net Wgt. Per 1000 Ft.	List Price Per 1000 Ft.
18	1/64	.11	9	**$26.20**
18	1/32	.13	12	**28.00**
16	1/32	.14	16	**32.20**
		Solid		
18	1/64	.11	9	**$23.60**
18	1/32	.13	12	**25.80**
16	1/32	.14	16	**28.80**

THERMOSTAT CONTROL CABLES



Used for furnace controls, signal systems, etc.

Braided

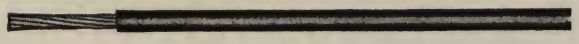
Size	Approx. O.D. Inches.	Approx. Net Wgt. Per 1000 Ft.	Std. Coil	List Price Per 1000 Ft.
18/2	.141	14	500′	**$30.60**
18/3	.170	20	500′	**46.50**
18/4	.182	25	500′	**62.50**
18/5	.212	33	500′	**78.50**
		Armored		
18/2	.141	32	500′	**$49.50**
18/3	.170	40	500′	**59.26**
18/4	.182	47	500′	**69.62**
18/5	.212	59	500′	**88.88**

ROCKBESTOS

TYPE AF

Heat resisting wire—90° C

(For exposed fixture wiring in dry places.)
Standard Colors: Black and White



Plain

Size	No. and Size of Strands	Approx. O.D. Inches	Approx. Net Wgt. Per 1000 Ft.	Price Per 1000 Ft.
18	16x30	.110	11	**$27.40**
16	26x30	.125	15	**32.00**
14	41x30	.140	20	**40.80**



ANNUNCIATOR WIRE

Single Conductor

Size	Approx. O.D. Inches	Spool Size	Approx. Net Wgt. Per 1000 Ft.	List Price Per Lb.
18	.074	1 or 7 lb.	6 lb.	**$1.60**
		Double Conductor—Twisted		
18	.138	7 lb.	12¾ lb.	**$1.65**

WEATHERPROOF WIRE

TRIPLE BRAID



(1) Soft drawn, medium hard drawn, or hard drawn, solid or concentrically stranded copper conductor.

(2) and (3) Inner cotton braid thoroughly saturated with black, air-blown, petroleum asphaltic, weather-resistant compound.

(4) Outer cotton braid thoroughly saturated with black, air-blown, petroleum asphaltic, weather-resistant compound, finished with a coating of stearin pitch and coated with mica flake.

Solid

Cond. Size	Pounds Per 1000 Ft.	Stranded	List Price Per CWT
14	25	—	**$112.36**
12	35	—	**107.86**
10	53	—	**99.20**
8	75	78	**93.76**
6	112	115	**90.26**
4	164	170	**89.06**
2	260	270	**87.56**
1	316	328	**86.26**
1/0	407	424	**85.46**
2/0	502	522	**85.46**
3/0	629	653	**85.46**
4/0	767	800	**85.46**
		Bare Copper Wire	
14	12.43	12.7	**$112.36**
12	19.77	20.2	**107.86**
10	31.43	32.1	**99.20**
8	49.98	51.0	**93.76**
6	79.46	81.0	**90.26**
4	126.4	129	**89.06**
2	200.9	205	**87.56**
1	253.3	258	**86.26**
1/0	319.5	326	**85.46**
2/0	402.8	411	**85.46**
3/0	507.9	518	**85.46**
4/0	640.5	653	**85.46**

TELEPHONE WIRE

TWISTED PAIR

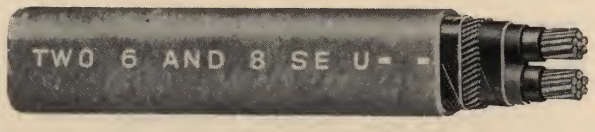


Inside Olive Green—Dry Braid

Cond. Size	Diameter over Rubber	Approx. Net Wgt. Per 1000 Ft.	List Price Per 1000 Ft.
22	.056″	10 lbs.	**$38.80**
19	.094″	21 lbs.	**55.20**
18	.109″	26 lbs.	**62.70**
	Outside Drop Wire		
19	.094″	22 lbs.	**$52.20**
18	.109″	31 lbs.	**62.70**
16	.125″	42 lbs.	**80.00**
14	.156″	60 lbs.	**93.80**

For single conductor, use ½ the list price of twisted pair.
For three conductor use 1½ times the list price of twisted pair.

SERVICE ENTRANCE CABLE
Two and Three Conductors — 600 Volts



For use between entrance cap and switch or meter or for range feeders.
Construction: Tinned copper conductors, standard N.E.C. grade and thickness of insulation. Each conductor braided and weather-proofed, double wrap of rubber tape, substantial weather-proof overall, brown finish, takes any color house paint.
Has two heavy rubberized tapes with substantial weather-proof cotton braid overall.
All types have bare neutral concentrically laid as illustrated.

TYPE SE — STYLE U

Total Conds.	Insulated Conds. — No. & Size	Uninsulated Neutral Concentric Cond. Size	Approx. Overall Diam.	Std. Coil Length in Ft.	List Price Per 1000 Ft.
2	1-12	12	.36″	250	$288.00
3	2-12	12	.39x.54″	250	390.00
2	1-10	10	.39″	250	314.00
3	2-10	10	.41x.59″	250	462.00
2	1-8	8	.47″	250	380.00
3	2-8	8	.51x.73″	250	568.00
2	1-6	8	.53″	250	452.00
2	1-6	6	.54″	250	518.00
3	2-6	8	.57x.85″	200	710.00
3	2-6	6	.58x.85″	150	752.00
2	1-4	6	.60″	200	610.00
2	1-4	4	.61″	200	680.00
3	2-4	6	.63x.94″	150	950.00
3	2-4	4	.62x.93″	150	1046.00

DELTABESTON STOVE WIRE
SOLID WHITE BRAID — TABLE YK 5145



Size	List Price Per 1000 Ft.
14 Solid	$87.60
12 Solid	101.60
10 Solid	121.60
8 Solid	165.40

HEATER CORDS
PREEN-X
The Radically New General Electric Heater Cord



Preen-X, 300-Volts, 3000 Cycle Cord is UL approved for 90° C (194°F). Available in Black or Brown. It is a parallel cord, centrally cut and rib coded. This new cord practically defies abrasion and annoying kinks—it is completely water, oil and grease proof. It is easy to connect to small appliances such as soldering irons, toasters, waffle irons, coffee makers, etc.

Size	Stranding	Carrying Capacity	Std. Coil	List Price Per 1000 Ft.
18/2	41/.0063	10 Amps	250′	$56.80
16/2	65/.0063	15 Amps	250′	72.00

HEATER CORDS
AMERICAN BEAUTY HEATER CORD



Super-flexible heater cord constructed of strands of No. 34 wires. Black and gold braid overall.

17 No. 100GB List Price Per 1000 Ft. **$66.00**

TYPE HPD — 3000 CYCLE



Extra flexible. All sizes have strands constructed of No. 34 wires, insulated with pure asbestos yarn, covered with black and gray braid.

Size	List Price Per 1000 Ft.
18	$73.00
16	89.80
14	115.50

TYPE HPD — 10000 CYCLE

Special extra flexible cord with conductors constructed of strands of No. 36 wires. Insulated with pure asbestos yarn. Glazed black and gray cotton braid with rayon marker.

18	$113.00
16	121.50

TYPE C
Glazed Cotton — New Code



For pendant or portable use in dry places and where not subject to hard usage.
Standard Colors: Combination Green & Yellow and plain Black.

No. 18 Twisted pair 1/32″	$60.00
No. 16 Twisted pair 1/32″	79.00
No. 14 Twisted pair 3/64″	129.00

TYPE PO
Rayon Artificial Silk Covered Lamp Cord

18-1/64″ Parallel	$55.00
18-1/32″ Parallel	68.00

TYPE CB
Brewery Cord



(Not listed by Underwriters' Laboratories)

18-2/64″	$68.00
16-2/64″	84.00
14-3/64″	136.00
14-3/64″	172.00

TYPE P



Reinforced cord for pendant or portable use in dry places and where subject to hard usage. Glazed finish.
Standard Color: Black.

18-1/64″	$82.00
18-1/32″	112.00
16-1/32″	154.00

WE ARE

DISTRIBUTORS FOR WIRES AND CABLES MANUFACTURED BY

ROME — NATIONAL — GENERAL CABLE —

OKONITE — GENERAL ELECTRIC — ROCKBESTOS

ALL RUBBER CORD

BUNA INSULATION AND JACKET



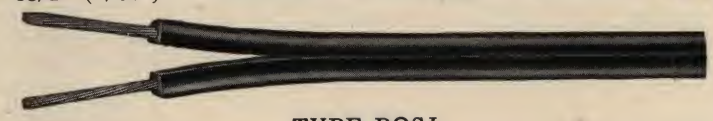
TYPE POT
Rip Cord

Black—300V Flamenol Insulation and Jacket

18/2	(1/64")	$48.50

Ivory & Brown—300V Flannel Insulation and Jacket

18/2	(1/64")	48.50



TYPE POSJ
Rip Cord—300 Volt—Rubber Insulation Jacket

Size	Stranding	List Price Per 1000 Ft.
18-2	41/.0063	$48.50
16-2	65/.0063	87.80



TYPE SV
Light Duty—300V—Rubber Insulation Jacket

Small diameter wire used for household services such as washing machines, vacuum cleaners, etc.

18-2	41/.0063	$96.70



TYPE SJ
Stationary Service—300 Volt Rubber Insulation Jacket

Type SJ Buna Jacket Cord provides rugged, dependable service for medium-duty applications. It is lightweight, flexible, and resistant to acids, alkalies and water.

Size	Stranding	List Price Per 1000 Ft.
18-2	16/.010	$107.20
16-2	26/.010	139.70
18-3	16/.010	158.30
16-3	26/.010	200.60



TYPE S 600 Volt—Heavy Duty

Type S Buna Jacket Cord is a tough, durable portable cord designed for heavy-duty service. It is flexible, resilient, and resistant to acids, alkalies and water.

18-2	41/.0063	$159.70
16-2	65/.0063	198.00
14-2	84/.0071	339.70
12-2	84/.0089	458.90
10-2	105/.0100	630.10
8-2	133/.0113	1202.30
18-3	41/.0063	223.60
16-3	65/.0063	277.10
14-3	84/.0071	444.40
12-3	84/.0089	566.30
10-3	105/.0100	801.50
8-3	133/.0113	1501.30
18-4	41/.0063	316.60
16-4	65/.0063	415.30
14-4	84/.0071	612.70
12-4	84/.0089	766.70
10-4	105/.0100	950.00
8-4	133/.0113	1860.00

NEOPRENE SHEATHED CORDS



TYPE SJO Neoprene Jacket Cord

Neoprene Jacket Cord is outstanding in resistance to sunlight, oil, water, acids, alkalies and heat. It is designed for use in industrial plants, service stations, garages, packing houses, chemical plants, etc.

Size	List Price per Thousand Feet 2 Conductor	3 Conductor	4 Conductor
18	$160.00	$224.00	.....
16	200.00	268.00	.....



TYPE SO Heavy Duty

18	$220.00	$280.00	$336.00
16	270.00	320.00	420.00
14	412.00	490.00	600.00
12	522.00	700.00	750.00
10	716.00	876.00	1004.00
8	1100.00	1430.00	1730.00
6	1492.00	1914.00	2302.00
4	1944.00	2492.00	3115.00
2	2814.00	3553.00	4490.00

Chapter 10, Table 1—1947 N. E. C. (for copper conductors)

ALLOWABLE CURRENT-CARRYING CAPACITIES OF CONDUCTORS IN AMPERES

Not More Than Three Conductors in Raceway or Cable
(Based on Room Temperature of 30°C., 86°F.)

Size AWG MCM	Rubber Type R Type RW Type RU (14-6) Thermoplastic Type T (14-4/0) Type TW (14-4/0)	Rubber Type RH	Paper Thermoplastic Asbestos Type TA Var-Cam Type V Asbestos Var-Cam Type AVB	Impregnated Asbestos Var-Cam Type AVA	Impregnated Asbestos Type AI (14-8) Type AIA	Impregnated Asbestos Type A (14-8) Type AA
14	15	15	25	30	30	30
12	20	20	30	35	40	40
10	30	30	40	45	50	55
8	40	45	50	60	65	70
6	55	65	70	80	85	95
4	70	85	90	105	115	120
3	80	100	105	120	130	145
2	95	115	120	135	145	165
1	110	130	140	160	170	190
0	125	150	155	190	200	225
00	145	175	185	215	230	250
000	165	200	210	245	265	285
0000	195	230	235	275	310	340
250	215	255	270	315	335	...
300	240	285	300	345	380	...
350	260	310	325	390	420	...
400	280	335	360	420	450	...
500	320	380	405	470	500	...
600	355	420	455	525	545	...
700	385	460	490	560	600	...
750	400	475	500	580	620	...
800	410	490	515	600	640	...
900	435	520	555	...	...	...
1,000	455	545	585	680	730	...
1,250	495	590	645	...	...	...
1,500	520	625	700	785	...	...
1,750	545	650	735	...	...	...
2,000	560	665	775	840	...	...

Correction Factor for Room Temperatures Over 30°C., 86°F.

°C	°F						
40	104	.82	.88	.90	.94	.95	...
45	113	.71	.82	.85	.90	.92	...
50	122	.58	.75	.80	.87	.89	...
55	131	.41	.67	.74	.83	.86	...
60	140	...	.58	.67	.79	.83	.91
70	158	...	.35	.52	.71	.76	.87
75	167	...	...	.43	.66	.72	.86
80	176	...	...	.30	.61	.69	.84
90	194	...	...	...	.50	.61	.80
100	212	...	...	...	...	.51	.77
120	248	...	...	...	...	...	.69
140	284	...	...	...	...	...	.59

TYPE RR TRENCHWIRE

600 VOLTS—Single Conductor



Trenchwire Cable is designed for installation in ducts, for direct burial as a nonmetallic sheathed parkway cable, or as an aerial cable for overhead use. Cable is insulated with a high grade insulating compound and covered with a tough, impervious jacket highly resistant to weather and sunlight.

Size Awg or CM		Thickness Inches Insul.	Jacket	Approx. O.D. Inches	Approx. Shp. Wt. 1000 Ft. Pounds	List Price Per 1000 Ft.
12	Sol.	3/64	2/64	.238	73	**$84.60**
10	Sol.	3/64	2/64	.259	98	**101.80**
8	Sol.	4/64	2/64	.317	148	**169.60**
6	7 Str.	4/64	2/64	.372	193	**226.00**
4	7 Str.	4/64	2/64	.420	253	**304.00**
2	7 Str.	4/64	2/64	.480	374	**422.00**
1	19 Str.	5/64	3/64	.582	491	**548.00**
1/0	19 Str.	5/64	3/64	.623	571	**604.00**
2/0	19 Str.	5/64	3/64	.669	675	**740.00**
3/0	19 Str.	5/64	3/64	.720	799	**886.00**
4/0	19 Str.	5/64	3/64	.778	954	**1,082.00**
250MCM	37 Str.	6/64	4/64	.888	1138	**1,418.00**
350MCM	37 Str.	6/64	4/64	.994	1594	**1,834.00**
500MCM	37 Str.	6/64	4/64	1.126	2211	**2,416.00**

LEAD COVERED WIRE

600 Volt—Code Grade—Lead covered—50° C



Cond. Size	No. of Strands	Rubber Wall 64ths	Lead Sheath 64ths	Approx. O.D. In.	Approx. Net Wt. Per 1000 Ft.	List Price Per 1000 Ft.
14	Sol.	2	2	.25	135	**$150.20**
12	Sol.	2	2	.27	153	**179.00**
10	Sol.	3	3	.32	260	**290.00**
8	Sol.	4	3	.38	320	**286.00**
6	Str.	4	4	.47	520	**642.00**
4	Str.	4	4	.52	620	**786.00**
14-2	Sol.	3	2	.25x.44	225	**240.00**
12-2	Sol.	3	3	.30x.51	360	**346.00**
10-2	Sol.	3	3	.32x.55	410	**466.00**
8-2	Sol.	4	3	.38x.66	540	**646.00**
14-3	Sol.	3	4	.56	500	**606.00**
12-3	Sol.	3	4	.60	680	**708.00**
10-3	Sol.	3	4	.64	770	**868.00**
8-3	Sol.	4	4	.77	960	**1,112.00**
6-3	Str.	4	5	.92	1470	**1,728.00**

WRITE FOR QUOTATION ON LARGER SIZES

BARE ARMORED GROUND WIRE



Size	Coil Ft. Lgth.	List Price Per 1000
8/1 Sol.	250	**$166.80**
6/1 Sol.	250	**224.40**

RED FIBRE ANTI-SHORT BUSHINGS

For use with A.B.C. Armored Bushed Cable. Each coil of A.B.C. cable has attached a bag containing sufficient "Anti-Short" Bushings for average requirements. Extra "Anti-Shorts" are sold separately.

Size	Description	Quan. in Bag	Price Per 100
1/8	For 14/2	35	**$2.20**
1	For 14/3, 12/2 and 6/1	35	**2.20**

CABLE NON-METALLIC SHEATHED

Loomwire—600 Volts

Furnished without Ground Wire unless order definitely specifies "With Ground Wire."



Loomwire is a durable non-metallic sheathed cable for concealed or open work in locations that are reasonably dry, where the cable will not be exposed to undue injury or abuse.

Two-Conductor

Size AWG Cond.	No. and Dia. Strands	Thickness Rubber	Approx. Overall Dia. Inches	Lgth. Per Coil	Wt. Std. Pkg.	List Price 1000 Ft.
14	.064	2/64	.590x.330	250	21	**$79.40**
12	.081	2/64	.620x.350	200	19	**107.80**
10	.102	3/64	.670x.370	200	36	**174.80**
*8	7x.0486	4/64	.920x.510	125	35	**334.00**

Three-Conductor

14	.064	2/64	.630	200	29	**$149.20**
12	.081	2/64	.660	200	32	**180.40**
10	.102	3/64	.720	200	57	**266.00**
*8	7x.0486	4/64	.990	125	60	**488.00**
*6	7x.0612	4/64	1.090	125	76	**652.00**

*** These sizes stranded.**

NEOPRENE BARN WIRE

Non-metallic sheathed cable



Made with Duraprene conductors and Neoprene Jacket. No fibrous materials to rot.

Size	Approx. Wt. Per 1000 Ft.	Approx. Wt. Per 1000 Ft.	List Price Per 1000 Ft.
14-2 Cond.	250	100	**$168.80**
12-2 Cond.	250	120	**226.00**
10-2 Cond.	200	165	**304.00**
14-3 Cond.	200	170	**350.00**
12-3 Cond.	200	200	**412.00**
10-3 Cond.	200	280	**456.00**

ABC CABLE

BX TYPE—ARMORED

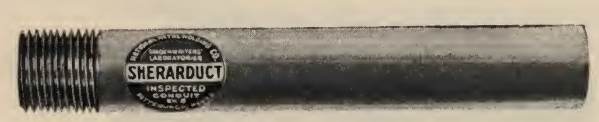


A small bag of Anti-Short Bushings furnished with each coil of cable.

Size	Coil Ft. Length	List Price Per 1000 Ft.
14/2 Sol.	250	**$163.60**
12/2 Sol.	250	**207.00**
10/2 Sol.	250	**334.00**
8/2 Str.	150	**576.00**
14/3 Sol.	250	**221.20**
12/3 Sol.	250	**280.80**
10/3 Sol.	250	**438.00**
8/3 Str.	150	**776.80**
6/3 Str.	100	**922.20**

RIGID GALVANIZED CONDUIT

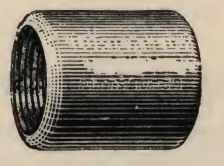
(With galvanized threads)



Seamless with smooth finish
10′ lengths with one coupling

Size	Wgt. Lbs. Per 1000 Feet	List Price Per 100 Ft.
½″	852	$25.52
¾″	1134	33.00
1″	1684	47.46
1¼″	2281	63.90
1½″	2731	76.16
2″	3678	101.98
2½″	5819	162.18
3″	7616	211.36
3½″	9202	276.50
4″	10889	327.84
5″	14810	524.44
6″	19185	683.38

GALVANIZED CONDUIT COUPLINGS



Size	Wgt. Lbs. Per 100 Feet	List Price Per 100 Ft.
½″	11.6	$15.90
¾″	20.9	22.92
1″	34.3	30.44
1¼″	53.5	43.02
1½″	74.3	53.40
2″	120.8	72.50
2½″	172.0	145.72
3″	249.8	213.80
3½″	424.1	292.76
4″	474.1	331.70
5″	700.0	618.44
6″	750.0	847.34

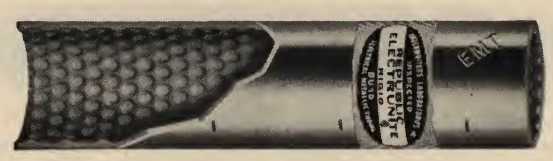
GALVANIZED CONDUIT ELBOWS



½″	82	$45.56
¾″	109	59.74
1″	201	90.41
1¼″	313	127.36
1½″	441	175.86
2″	707	284.30
2½″	1411	508.20
3″	1850	1,061.74
3½″	2979	1,937.72
4″	3528	2,264.56
5″	6575	5,915.52
6″	9645	8,123.46

THINWALL CONDUIT

Threadless (Approved by the Underwriters)



This new conduit is a thin wall steel tubing having the same general characteristics as standard conduit except being much lighter in weight and is used without threading. Electro galvanized acid and rust-proof finish. Ten foot lengths. Couplings not included.

Size	Wgt. Lbs. Per 100 Feet	List Price Per 100 Ft.
½″	32	$13.70
¾″	49	19.16
1″	71	26.44
1¼″	99	36.92
1½″	114	41.84
2″	147	54.62

90° THINWALL ELBOWS
Without Couplings

Size	List Price Each
1″	$0.65
1¼″	.95
1½″	1.23
2″	2.28

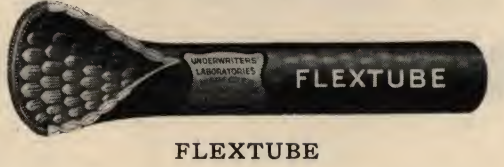
FLEXIBLE STEEL CONDUIT

Single Strip



Size In.	Approx. Ft. Coil	Wgt. Lbs. Per 1000 Ft.	List Price Per 1000 Ft.
5/16	250	160	$14.20
⅜	250	180	18.10
½	100	520	26.50
¾	50	620	33.60
1	50	1180	70.70
1¼	50	1480	88.10
1½	25	1800	112.70
2	25	2280	144.30
2½	25	2840	169.70
3	25	3000	222.70

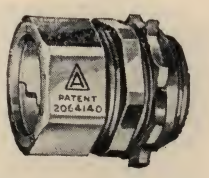
NON-METALLIC FLEXIBLE CONDUIT (LOOM)



FLEXTUBE

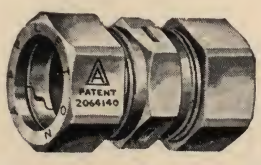
Size	Feet Per Coil	Wt. Lbs. Per 1000 Ft.	List Price Per 1000 Ft.
7/32″	250	33	$60.70
¼″	250	37	78.40
⅜″	250	64	123.40
½″	200	85	165.00
⅝″	200	110	215.90
¾″	150	112	258.70
1″	100	210	420.00

THINWALL FITTINGS



RAINTIGHT BOX CONNECTORS FOR THINWALL CONDUIT (E. M. T.)

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
5119	⅜"	200	50	$34.00
5121	½"	500	50	22.50
5221	¾"	250	25	32.00
5321	1"	100	25	48.70
5421	1¼"	25	5	92.00
5521	1½"	10	2	140.00
5621	2"	5	2	198.00



RAINTIGHT COUPLINGS FOR THINWALL CONDUIT (E. M. T.)

5118	⅜"	200	50	$40.00
5120	½"	500	50	27.40
5220	¾"	250	25	37.50
5320	1"	100	25	58.20
5420	1¼"	25	5	106.00
5520	1½"	10	2	152.00
5620	2"	5	2	212.00



RAINTIGHT SHORT ELBOW FOR THINWALL CONDUIT (E. M. T.)

No.	Size	Std. Pkg.	Unit Quan.	List Price Each
4230	½"	50	25	$59.00
4231	¾"	50	25	93.00
4232	1"	25	5	142.00
4233	1¼"	10	2	360.00
4234	1½"	10	2	515.00
4235	2"	10	2	785.00



TYPE FEL SPECIAL ENTRANCE ELL

Approved Watertight

TW37T90	½"	100	25	$88.00
TW37T91	¾"	50	5	132.00
TW37T92	1"	25	5	202.40
TW37T93	1¼"	25	5	286.00



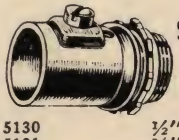
"SOCKS" CONNECTORS FOR THINWALL CONDUIT (E. M. T.)

No.	Size	Std. Pkg.	Unit Quan.	List Price Each
5181	½"	1000	200	$15.60
5281	¾"	500	100	20.90
5381	1"	50	25	32.00

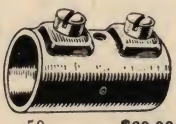


"SOCKS" COUPLINGS FOR THINWALL CONDUIT (E. M. T.)

5180	½"	250	50	$31.50
5280	¾"	100	25	42.00
5380	1"	50	25	57.50

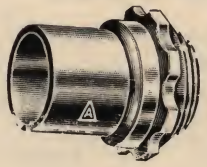


SET SCREW COUPLING AND CONNECTOR FOR (E. M. T.)

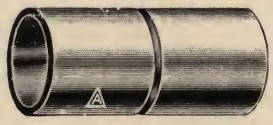


5130	½" Coupling	500	50	$20.00
5131	½" Connector	500	50	15.00

INDENTER TYPE COUPLINGS, CONNECTORS

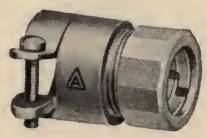


No.	Size	Std. Pkg.	Cart. Quan.	List Price Per 100
BM21	½"	200	50	$16.00
BM22	¾"	100	25	30.00
BM23	1"	50	10	43.50



No.	Size	Std. Pkg.	Cart. Quan.	List Price Per 100
BM41	½"	200	50	$10.40
BM42	¾"	100	25	14.90
BM43	1"	50	10	24.00

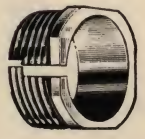
COMBINATION COUPLINGS



For connecting flexible metallic conduit or armoured bushed cable to electrical metallic tubing. Standard Pkg. 50—Cart. Quan. 10.

No.	Inch	To Hold	List Price Per 100
TW18854	½	⅜" B.X.	$54.00
TW18855	½	½" Flex.	76.00
TW18856	¾	¾" Flex.	102.00

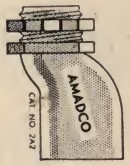
THREADED SPLIT STEEL ADAPTERS



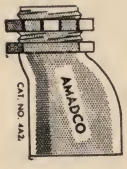
No.	Size	Std. Pkg.	Cart. Quan.	List Price Each
1050	½"	200	50	$15.00
1075	¾"	100	25	21.00
1190	1"	50	25	31.00
1125	1¼"	20	5	62.60
1150	1½"	10	2	72.00
1151	2"	6	2	230.00

LANGMAN PATENTED OFFSETS

1-INCH OFFSET BOND TYPE—E. M. T.



No.	Size	Std. Pkg.	Carton	List Price Per 100
2A2	½"	200	50	$39.20
2A3	¾"	100	50	52.40
2A4	1"	100	25	89.92



RIGID TYPE OFFSET

4A2	½"	200	50	$57.92
4A3	¾"	100	50	73.60
4A4	1"	50	25	112.00



RAIN-TIGHT OFFSET—E. M. T.

3A2	½"	200	50	$56.80
3A3	¾"	100	50	67.52
3A4	1"	50	25	103.68

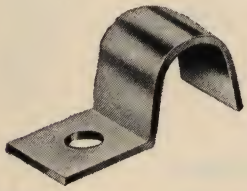
THINWALL FITTINGS



MALLEABLE IRON PIPE STRAPS FOR CONDUIT (E.M.T.)

Standard Finish—Hot Dip Galvanized Zinc

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
4175	⅜"	500	100	$11.00
4176	½"	500	100	5.20
4177	¾"	500	50	8.20
4178	1"	100	50	12.00
4179	1¼"	100	25	15.20
4180	1½"	50	25	24.00
4181	2"	25	10	34.00



STEEL PIPE STRAPS FOR CONDUIT (E.M.T.)

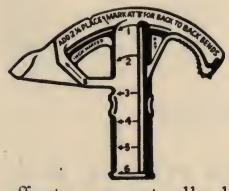
Standard Finish—Hot Dip Galvanized Zinc

4159	½"	500	100	$5.00
4160	¾"	500	50	7.80
4161	1"	100	50	11.40



BENDERS AND TOOLS FOR E.M.T.

No.	Size	Std. Pkg.	List Price Each
4195	½" Bender	1	$5.50
4196	¾" Bender	1	9.50
4197	1" Bender	1	14.90
4185	½" Hickey	1	5.50
4186	¾" Hickey	1	7.00



ELECTRUNITE BENDER

This new Electrunite Bender will help you use E.M.T. to best advantage. A one-piece malleable iron casting with no moving parts to get out of order. Simple instructions, and markings for making stubs, back-to-back bends, and offsets are actually built into the side of the bender so the instructions can never be lost. Standard code radius bends can be made with greater accuracy than ever before possible. Bending tag included with each shipment of Electrunite E.M.T. gives complete instructions for the use of the bender.

No.	Size In.	Std. Pkg.	Wgt. Lbs. 100	Pipe Handle Size	List Price Each
1472	½	10	250	¾"	$35.50
1473	¾	10	420	¾"	9.50
1474	1	2	800	1"	14.90



BENDING HICKEYS

For short bends, tight corners and for "stubbing up" in concrete work.

No.	Size		List Price Each
12195	½"	Use ¾" pipe handle	$5.50
12196	¾"	Use 1" pipe handle	7.00
12197	1"	Use 1" pipe handle	13.50
12198	1¼"	Use 1¼" pipe handle	15.00
12199	1½"	Use 1¼" pipe handle	19.50
12200	2"	Use 1½" pipe handle	30.00

"BM" INDENTERS



No.	Description	Approx. Wt. Lbs. Each	List Price
BM-600	Indenter handle only, no jaws.....	3	each $8.60
BM-6000	½" Indenter Jaws	3/5	pair 3.90
BM-6001	¾" Indenter Jaws	1/2	pair 5.90
BM-6002	1" Indenter Jaws	2/5	pair 5.90
BM-6003	Indenter Points for Nos. BM-6000, BM-6001, and BM-6002 Indenter Jaws	1/16	doz. 1.50

WRENCH AND REAMER FOR E.M.T. FITTINGS



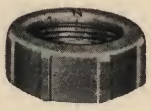
No.	Size	Std. Pkg.	List Price Each
33	½" and ¾" Wrench and Reamer	12	$3.40

CONDUIT FITTINGS



CONDUIT LOCKNUTS

Size Inches	Std. Pkg.	Ctn.	List Price Per 100	Size Inches	Std. Pkg.	Ctn.	List Price Per 100
⅜	1000	100	$5.80	2	50	25	$22.70
½	2500	100	3.70	2½	30	10	42.10
¾	1000	100	4.30	3	25	5	64.80
1	500	50	7.70	3½	25	5	116.50
1¼	200	50	10.00	4	25	5	145.70
1½	100	50	12.30	5	10	2	323.70



CONDUIT BUSHINGS

⅜	1000	100	$13.10	2	50	25	$48.50
½	2500	100	6.70	2½	30	10	92.20
¾	1000	100	10.70	3	25	5	113.30
1	500	50	17.10	3½	25	5	210.30
1¼	200	50	18.70	4	25	5	258.90
1½	100	50	24.70	5	10	2	517.90



O-Z INSULATED BUSHINGS

Conduit Type B

A bushing designed to prevent disastrous grounds using Bakelite as an insulator. Cut illustrates how insulating material is molded and locked into the casting. Castings are made of the highest grade malleable iron and are cadmium plated. Conduit bushings are capped.

No.	Size Inches	Std. Pkg.	List Price Each	No.	Size Inches	Std. Pkg.	List Price Each
B50	½	100	$0.30	B300	3	5	$4.00
B75	¾	50	.60	B350	3½	5	5.10
B100	1	30	.90	B400	4	1	6.60
B125	1¼	20	1.20	B450	4½	1	9.50
B150	1½	15	1.50	B500	5	1	13.20
B200	2	10	2.10	B600	6	1	20.50
B250	2½	10	2.90				



STEEL SURFACE CABINETS

TYPE A APPROVED CABINETS

For Cutouts, Service Switches and Panel Boards

Made of sheet steel of the required thickness to conform with Board of Underwriters' requirements and bear the Underwriters' labels. Finish black enamel. For galvanized finish, add 35 per cent.

Size	List Price Each	Size	List Price Each
4½ x 9 x 3	$2.50	8 x 10 x 4	$ 4.00
6 x 6 x 3	2.36	10 x 10 x 4	5.00
6 x 6 x 4	2.36	10 x 12 x 4	5.68
6 x 8 x 4	2.96	12 x 15 x 4	8.20
8 x 8 x 4	3.68	15 x 18 x 4	10.32

SCREW COVER PULL BOXES

Pull boxes can be supplied in any thickness of steel, and in every size required. Due to the use of large conduits, it is often necessary to use a heavier gauge of steel than is called for by the code. Furnished with standard knockouts. If special knockouts are required, a **$1.25** labor charge for each additional size change will be made regardless of the quantity of boxes ordered.

If boxes are wanted without knockouts, please mention it. Boxes without knockouts take list price less discount.

Prices are for boxes finished in black enamel. For galvanized finish, add 30 per cent. Sizes not listed at proportionate prices. Special pull boxes of any design, size and specification adapted to any requirement, are made to your order.

NO. 16 GAUGE STEEL—STANDARD

NOTE: The list prices of sizes which are omitted in this list must be made of heavier gauge steel to conform with the National Electric Code.

Size	List Price Each	Size	List Price Each
6 x 6 x 4	$3.00	6 x 6 x 6	$3.50
6 x 8 x 4	3.40	6 x 8 x 6	4.32
8 x 10 x 4	4.32	8 x 10 x 6	5.68
10 x 12 x 4	6.00	10 x 12 x 6	7.32

CURRENT TRANSFORMER CABINETS

Size	List Price Each
24 x 30 x 10	$35.00
30 x 36 x 10	46.00



T & B INSULINER SLEEVES

Approved by Underwriters' Laboratories

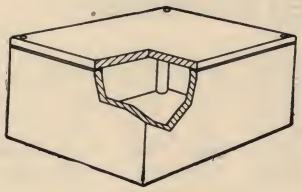
Can be used in any raceway outlet. Overlapping ends automatically adjusts "Insuliner" to normal variations to conduit diameters—either standard heavywall, or thinwall conduit (E.M.T.) Smoothly rounded mouth covers bushing and long skirt shields end of conduit.

No.	Cond. Size, In.	Unit Pkg.	Std. Pkg.	Wt. Lbs. Per 100	Price Per 100
422	½	25	50	3	$ 15.00
423	¾	25	50	6	17.00
424	1	25	50	7	20.00
425	1¼	20	40	13	25.00
426	1½	20	40	14	27.00
427	2	15	30	20	30.00
428	2½	15	30	35	50.00
429	3	5	25	50	80.00
430	3½	5	25	75	100.00
431	4	5	20	90	200.00
432	4½	3	15	110	300.00
433	5	2	10	140	400.00
434	6	1	5	200	500.00

SOCKET BUSHINGS

Size	Std. Pkg.	List Price Per 100
⅛"	100	$0.80
¼"	100	4.20

CAST IRON JUNCTION BOXES



TYPE "YS"

Unflanged Junction or Pull Boxes For Surface Mounting

STANDARD CONSTRUCTION

(1) Cast iron box and plain cover.
(2) Hot-Dip Galvanized finish.
(3) Rubber Gasket.
(4) Brass cover screws.

No.	Dimensions in Inches L W D	Approx. Wall. Thick.*	List Price Each
YS 040402	4x4x2	5/32	$2.35
YS 040403	4x4x3	3/16	2.95
YS 040404	4x4x4	3/16	4.20
YS 050503	5x5x3	3/16	4.40
YS 050504	5x5x4	3/16	5.00
YS 060403	6x4x3	3/16	4.40
YS 060404	6x4x4	3/16	5.40
YS 060603	6x6x3	3/16	6.30
YS 060604	6x6x4	3/16	7.05
YS 060605	6x6x5	1/4	8.60
YS 060606	6x6x6	9/32	12.10
YS 070503	7x5x3	3/16	5.65
YS 080403	8x4x3	3/16	$5.85
YS 080404	8x4x4	7/32	6.20
YS 080603	8x6x3	3/16	7.70
YS 080604	8x6x4	7/32	7.90
YS 080605	8x6x5	1/4	10.40
YS 080606	8x6x6	9/32	13.20
YS 080803	8x8x3	3/16	10.00
YS 080804	8x8x4	7/32	10.80
YS 080805	8x8x5	1/4	14.90
YS 080806	8x8x6	9/32	15.75
YS 080808	8x8x8	5/16	21.00
YS 090603	9x6x3	3/16	9.00

*Measured 2" up from back of box. Larger sizes prices on application.



U-BOLTS

TYPE "U"

USE: For clamping conduit to a structure up to ⅜" thick.

COMPLETE WITH NUTS AND FLAT WASHERS

STEEL CADMIUM PLATED

No.	Conduit Size	Stock Dia.	List Price Each
MU 054	½"	¼"	$0.19
MU 074	¾"	¼"	.19
MU 075	¾"	5/16"	.23
MU 114	1 "	¼"	.20
MU 115	1 "	5/16"	.25
MU 116	1 "	⅜"	.30
MU 124	1¼"	¼"	.22
MU 125	1¼"	5/16"	.26
MU 126	1¼"	⅜"	.31
MU 154	1½"	¼"	.23
MU 155	1½"	5/16"	.28
MU 156	1½"	⅜"	.33
MU 205	2 "	5/16"	.31
MU 206	2 "	⅜"	.36
MU 266	2½"	⅜"	$0.40
MU 268	2½"	½"	.56
MU 316	3 "	⅜"	.45
MU 318	3 "	½"	.62
MU 366	3½"	⅜"	.50
MU 368	3½"	½"	.68
MU 416	4 "	⅜"	.54
MU 418	4 "	½"	.75
MU 466	4½"	⅜"	.62
MU 468	4½"	½"	.85
MU 516	5 "	⅜"	.70
MU 518	5 "	½"	1.09
MU 616	6 "	⅜"	1.15
MU 618	6 "	½"	1.55

FEDERAL CLAMP BUSHINGS

Type A Bushings

Made of one piece best grade vitrified porcelain. Clamping rings made of metal, threaded to fit threads on the porcelain.

No.	Conduit K. O. Size, In.	Diam., In. Inside	Diam., In. Outside	Approx. Max. Size R.C. Wire	Std. Pkg.	List Price Per 100
A-1	¼	5/16	41/64	No. 10	500	$ 6.00
A-2	½	13/32	13/16	No. 8	250	7.25
A-3	¾	9/16	1	No. 3	250	9.60
A-4	1	¾	1 5/16	No. 00	125	12.80
A-5	1¼	1⅛	1⅝	450000 C.M.	125	17.25
A-6	2	1⅝	2 5/16	1000000 C.M.	60	31.00

BLAKE INSULATED STAPLES

No.	Size	Std. Pkg.	List Price Per 100	No.	Size	Std. Pkg.	List Price Per 100
1	3/16 x ½	100	$0.50	5	¼ x ⅝	100	$0.50
3	3/16 x ¾	100	.50	6	¼ x ¾	100	.55

NO. 18 MILONITE PERFECTION INSULATED NAILS

Recommended for installing two-conductor twisted insulated wire. Easy to handle and install and prevent short circuiting. Furnished light oak, dark oak, dark green, olive green, black and white. Shank ½", ⅝" and ⅞" long.

No. 18—All lengths. List price per 1,000 ..... $4.00



UNION INSULATED BUSHINGS

Listed by Underwriters' Laboratories, Inc.

No.	Pipe Size	Std. Pkg.	Ctn.	Wgt. Per 100 Lbs.	List Price Per 100
CE-12	½"	500	100	1	$6.00
CE-34	¾"	500	100	1½	11.40
CE-1	1"	250	50	2½	18.22
CE-114	1¼"	100	25	4	20.80
CE-112	1½"	100	25	6	27.46
CE-2	2"	50	25	10	52.26
CE-212	2½"	20	10	15	111.16
CE-3	3"	10	10	20	121.60
CE 312	3½"	5	5	23	154.00
CE-4	4"	5	5	25	182.40
CE-412	4½"	2	2	32	342.00
CE-5	5"	2	2	41	399.00
CE-6	6"	2	2	50	760.00



RIGID CONDUIT NIPPLES

CLOSE

Pipe Size	Length	List Price Per 100	Pipe Size	Length	List Price Per 100
½"	1⅛"	$13.00	1½"	1¾"	$33.60
¾"	1⅜"	15.50	2"	2"	46.60
1"	1½"	20.70	2½"	2½"	98.40
1¼"	1⅝"	28.40	3"	2⅝"	116.60



SHORT NIPPLES

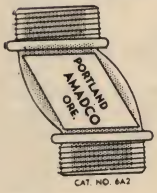
½"	1½"	$15.50	1½"	2½"	$36.40
¾"	2"	20.70	2"	2½"	46.60
1"	2"	23.40	2½"	3"	103.70
1¼"	2½"	31.10	3"	3"	129.60



LONG NIPPLES

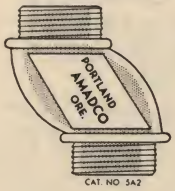
Pipe Size	— PRICES PER 100 PIECES — 2" Long	3" Long	4" Long	5" Long	6" Long	8" Long
½"	$18.20	$18.20	$20.70	$25.90	$31.10	$41.40
¾"	....	23.40	28.40	31.10	36.40	46.60
1"	....	33.60	38.90	41.40	46.60	62.30
1¼"	....	41.40	46.40	51.80	62.30	83.00
1½"	....	51.80	57.10	64.80	77.70	103.70
2"	....	67.50	77.80	88.20	103.70	134.80
2½"	....	....	142.50	171.20	197.10	248.90
3"	....	....	168.50	181.40	207.30	259.20

¾" OFFSET STANDARD LANGMAN GUTTER OFFSET



No.	Size	Std. Pkg.	Ctn.	List Price Per 100
6A2	½"	100	50	$65.60
6A3	¾"	80	20	72.80
6A4	1"	60	15	92.80
6A5	1¼"	40	10	108.80
6A6	1½"	40	10	118.80

SPECIAL LANGMAN GUTTER OFFSET



No.	Size	Std. Pkg.	Ctn.	List Price Per 100
5A2	½"	100	25	$75.20
5A3	¾"	80	20	86.72
5A4	1"	60	15	104.80
5A5	1½"	40	10	131.20



CHASE NIPPLES

No.	Size Inches	Dimen. A Inches	Std. Pkg.	Cart. Quan.	List Price Per 100
841	⅜	13/16	1000	100	$41.50
842	½	1	500	100	16.00
843	¾	1 5/16	200	100	19.20
844	1	1 11/16	100	25	36.80
845	1¼	2⅛	100	25	60.00
846	1½	2 5/16	50	10	81.00
847	2	2⅞	50	5	128.00
848	2½	3½	20	5	204.00
849	3	4⅜	10	2	300.00
850	3½	4⅝	5	2	640.00
851	4	5 3/16	5	2	1060.00
853	5	6 5/16	5	2	2820.00



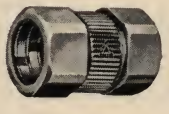
CONDUIT MALE ENLARGERS

No.	Size Inches	Std. Pkg.	Cart. Quan.	List Price Per 100
CF-9407	¾Fx½M	500	50	$45.30
CF-9408	1Fx¾M	500	50	85.30
CF-9409	1¼Fx1M	200	20	205.30



REDUCERS

No.	Size Inches	Std. Pkg.	Unit Quan.	List Pr. Per 100	No.	Size Inches	Std. Pkg.	Unit Quan.	List Pr. Per 100
500	½ to ⅜	100	50	$54.50	608	1½ to ¾	50	25	$166.00
601	¾ to ½	100	50	35.20	609	1½ to 1	50	25	166.00
602	1 to ½	50	25	64.00	610	1½ to 1¼	50	25	166.00
603	1 to ¾	50	25	64.00	611	2 to ½	25	10	266.00
604	1¼ to ½	50	25	115.00	612	2 to ¾	25	10	266.00
605	1¼ to ¾	50	25	115.00	613	2 to 1	25	10	224.00
606	1¼ to 1	50	25	115.00	614	2 to 1¼	25	10	224.00
607	1½ to ½	50	25	166.00	615	2 to 1½	25	10	224.00



CONDUIT FITTINGS

No-Thread Couplings

For Rigid Conduit (Heavy Wall)

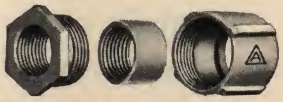
No.	Size Inches	Std. Pkg.	Cart. Quan.	List Price Per 100
CF-82N80	½	100	50	$109.30
CF-82N81	¾	40	10	160.00
CF-82N82	1	20	5	255.90
CF-82N83	1¼	20	5	386.00
CF-82N84	1½	10	2	477.20
CF-82N96	2	5	1	996.00

CONDUIT FITTINGS



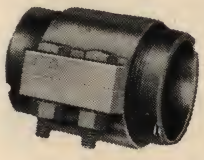
Type L No-Thread Connectors For Rigid Conduit (Heavy Wall)

No.	Size Inches	Std. Pkg.	Ctn.	List Price Per 100
CF-80N95	½	100	25	$72.00
CF-80N96	¾	40	10	117.30
CF-80N97	1	20	5	154.60
CF-80N98	1¼	20	5	282.60
CF-80N99	1½	10	2	391.90
CF-80N90	2	5	1	696.00



Type CN No-Thread Connectors For Rigid Conduit (Heavy Wall)

CF-80N20	½	100	25	$117.30
CF-80N21	¾	40	10	184.00
CF-80N22	1	20	5	282.60
CF-80N23	1¼	10	5	346.60



SPLIT COUPLINGS

TYPE "SP"

USE: A union for joining conduit on indoor installations where conduit cannot be turned or where space is limited.

No.	Conduit Size	Std. Pkg.	List Price Each	No.	Conduit Size	Std. Pkg.	List Price Each
SP50	½"	6	$1.45	SP250	2½"	2	$4.05
SP75	¾"	6	1.60	SP300	3"	1	5.50
SP100	1"	6	1.75	SP350	3½"	1	7.35
SP125	1¼"	4	2.00	SP400	4"	1	9.55
SP150	1½"	4	2.20	SP450	4½"	1	14.65
SP200	2"	2	2.70	SP500	5"	1	22.00

FIXTURE EXTENSION PIECES



⅜" Male x ⅜" Female

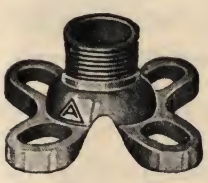
No.	Size Length	Std. Pkg.	Ctn.	List Price Per 1000
1590	1"	1000	500	$120.00
1591	1⅜"	1000	500	146.00



BOLTLESS FIXTURE STEMS

Malleable

No.	Size In.	Type	Std. Pkg.	Cart. Quan.	List Price Per 100
CF-8055	⅜	Solid	1000	100	$25.10
CF-8057	½	Solid	1000	100	29.30
CF-8056	⅜	Open	1000	100	21.80
CF-8058	½	Open	1000	100	32.00
CF-8070	⅜M, ⅛F	Open	1000	100	22.10



HICKEY FIXTURE STEMS

Open Type—Without Bolts

No.	Size In.	Material	Std. Pkg.	Ctn. Quan.	List Price Per 100
CF-8050	⅜	Malleable	1000	100	$23.30
CF-8090	⅜	Steel	1000	100	23.30
CF-8091	⅜M, ⅛F	Steel	1000	100	16.50
CF-8052	½	Malleable	500	55	28.00



CLAMPS

ONE-SCREW MALLEABLE CLAMPS

For Rigid Conduit (Heavy Wall)

No.	Size Inches	Std. Pkg.	Ctn.	List Price Per 100	No.	Size Inches	Std. Pkg.	Ctn.	List Price Per 100
1275	⅜	500	100	$14.20	1281	2	25	10	$109.00
1276	½	500	100	13.10	1282	2½	25	10	176.00
1277	¾	500	50	17.60	1283	3	25	10	266.00
1278	1	100	50	26.80	1284	3½	10	5	352.00
1279	1¼	100	25	40.50	1285	4	10	5	800.00
1280	1½	50	25	49.50	1287	5	5	2	2300.00



ONE-SCREW STEEL CLAMPS

For Rigid Conduit (Heavy Wall)

No.	Size Inches	Std. Pkg.	Ctn.	List Price Per 100
CF-7148	¼	100	100	$6.00
CF-7149	⅜	100	100	6.40
CF-7150	½	100	100	9.00
CF-7151	¾	100	100	10.10
CF-7152	1	100	100	13.60
CF-7153	1¼	40	10	22.00



REDUCING WASHERS

No.	Size	Std. Pkg.	Ctn.	List Price Per 100	No.	Size	Std. Pkg.	Ctn.	List Price Per 100
138	½ to ⅜	1000	100	$4.00	51	1½ to ½	500	50	$11.60
238	¾ to ⅜	1000	100	4.00	52	1½ to ¾	500	50	11.60
21	¾ to ½	1000	100	4.00	53	1½ to 1	500	50	11.60
31	1 to ½	1000	50	7.20	54	1½ to 1¼	500	50	11.60
32	1 to ¾	1000	50	7.20	61	2 to ½	500	50	15.00
41	1¼ to ½	500	50	9.60	62	2 to ¾	500	50	15.00
42	1¼ to ¾	500	50	9.60	63	2 to 1	500	50	15.00
43	1¼ to 1	500	50	9.60	64	2 to 1¼	500	50	15.00
					65	2 to 1½	500	50	15.00

KNOCKOUT SEALS

Type "B" with Screw and Nut

This type of Knockout Seal is adaptable to all classes of conduit boxes, buss raceways, safety switches, motor terminal and starting boxes. It also has the advantage of being interchangeable. All discs are embossed to centralize in knockout, thoroughly rustproofed, and marked for size and catalog number.

Two pieces required to cover one knockout. Screws and nuts are contained within carton.

10-B	½	1000	50	$6.20	70-B	2½	100	10	$53.90
20-B	¾	1000	50	7.80	80-B	3	100	10	66.10
30-B	1	1000	50	10.20	90-B	3½	100	10	78.00
40-B	1¼	500	50	14.40	100-B	4	20	10	92.80
50-B	1½	500	50	23.00	110-B	4½	10	10	182.10
60-B	2	500	50	28.20	120-B	5	10	10	182.10



SNAP-IN BLANKS

Size	Std. Pkg.	Ctn. Quant.	List Price Per 100	Size	Std. Pkg.	Ctn. Quant.	List Price Per 100
½"	1000	100	$6.00	1¼"	1000	100	$13.80
¾"	1000	100	6.80	1½"	1000	100	20.00
1"	1000	100	10.70	2"	1000	100	30.00



TIGER-GRIP HICKEYS AND COUPLINGS

No.	Description	Std. Pkg.	Ctn. Quan.	List Price Each
CF-7290	½ and ¾" Hickey	10	1	$5.60
CF-7291	1" Hickey	10	1	15.60
CF-7295	½ and ¾" Coupling	10	1	4.20
CF-7296	Jaws for Tiger-Grip Hickey			1.40

CONDUIT AND CABLE STRAPS



ONE SCREW CLAMPS

One-Screw Heavy Stamped Steel Clamps for Rigid Conduit (Heavy Wall)

No.	Size	Std. Pkg.	Cart. Quan.	List Price Per 100
CF-17248	¼"	500	100	$ 5.60
CF-17249	⅜"	500	100	10.00
CF-17250	½"	100	100	8.40
CF-17251	¾"	100	100	11.40
CF-17252	1"	100	100	17.30
CF-17253	1¼"	40	10	27.20
CF-17254	1½"	40	10	$34.00
CF-17255	2"	20	5	52.80
CF-17256	2½"	20	5	80.00
CF-17257	3"	10	5	93.30
CF-17258	3½"	10	5	133.30
CF-17259	4"	10	5	165.30



2-HOLE PIPE STRAPS

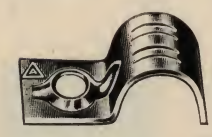
Size	¼"	⅜"	½"	¾"	1"	1¼"	1½"	2"
List Price Per 100 Lbs.	$51.20	$61.20	$52.80	$52.80	$52.80	$52.80	$57.60	$57.60



CABLE CLIP FOR ARMORED CABLE

Non-metallic sheathed cable and CNX Cable terne plate steel with superior rust resisting qualities. Little impressions firmly hold cable in place without injury. The spur anchors the clip in place. Fits Cable 14/2, 12/2, 10/2, 14/3 and 12/3.

No.	Std. Pkg.	Cart. Quan.	Price Per 100
CF-8066	1000	500	$8.60

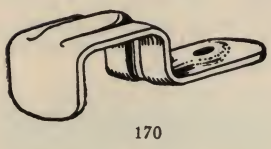


ONE-SCREW CLAMP

For ¼" and ⅜" Armored Conductor

No.	Size In.	Std. Pkg.	List Price Per 100
CF-7145	¼	500	$22.20

STRAPS FOR NON-METALLIC SHEATHED CABLE



170



260

Lead-coated, rust-resisting Terne plate steel. Fit 14/2, 12/2, and 10/2 cable.

No.	Style	List Price Per Lb.
170	One-hole	$0.80
260	Two-hole	.80

E-Z-IN ARMORED CABLE STAPLES



8065-5

For Nos. 14/2, 14/3, 12/2, 10/2 and 10/3 Armored Cable. Packed 5000 to a case.

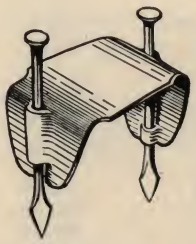
No.	Quantity Lots	List Price Per 1000
CF-8065-5	30000	$6.60
	10000	6.80
	5000	7.00

SERVICE ENTRANCE CABLE STRAP



112

No.	Size of Cable	List Price Per 100 Lbs.
112	2/6-1/8, 2/6-1/6 2/4-1/6, 2/4-1/4	$60.00

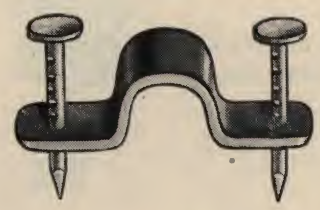


NAILS IN STRAP

Ready to Use

Handy strap for small type non-metallic sheathed cables (cadmium).

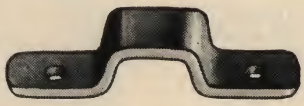
No.	Carton Quan.	List Price Per 1000
RA-1544	5000	$10.60



CPC-PB

Without nails, round, larger opening for all triple-wire cables.

PLASTIC STRAPS

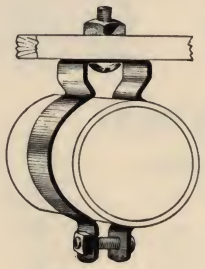


CPC-PBD

Flat opening for all standard double-wire cables.

No.	Size Opening	Lgth.	Width	Tkns.	List Price Per 1000
CPC-PBD	¼"x 7/16"	1⅝"	½"	1/16"	$21.60
CPC-PBT	7/16"x 9/16"	1¾"	½"	1/16"	23.10

MINNERALLAC CABLE AND CONDUIT HANGER



Made of best grade of spring steel. Intended especially for open wiring and for Cable and Conduit running in exposed positions, where appearance is important. Split porcelain bushings available for rubber covered cable installations. Listed by Underwriters' Laboratories, Inc. Cadmium plated steel.

No.	Conduit Size Rigid	Conduit Size Thinwall	Std. Pkg.	List Price Per 100
0	⅜ & ½	½	100	$10.00
1	¾	¾	100	11.00
2	1	1	100	14.40
2½	..	1¼	100	15.30
3	1¼	1½	100	15.70
4	1½	..	100	19.50
5	2	2	50	21.00
6	2½	..	50	23.40
7	3	..	25	25.00



STEMCO "HOLEY IRON"

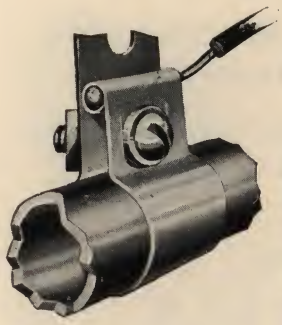
(Perforated Hanger Iron)

Packed 50 foot rolls in service carton.

Size .023x⅞—thinner for ease of handling.

A little wider for strength. Holes large enough for ¼" bolts. Standard package, 20 rolls (1000 ft.) to shipping case. Weight 64 lbs. List price per roll $2.00

GROUNDING FITTINGS



SHERMAN GROUND CLAMPS SOLDER TYPE (Not Approved)

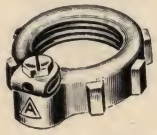
The original type — can be used with or without soldering. The bolt head and washer rest on a deep countersink, placed at just the right angle, this prevents the bolt head from tearing through the soft copper. Wire, not exceeding No. 3 AWG solid in size, can be tightly clamped in roll portion before soldering. Can be used without solder by wrapping wire, not exceeding No. 8 AWG solid in size, around bolt under the washer.

No.	Size	Std. Pkg.	Ctn.	List Price per 100
1	3/8-1	1000	100	$18.00
2	3/8-2	1000	100	25.00
3	3/8-3	500	50	37.00
4	3/8-4	250	25	59.40

LIGHT GROUND CLAMPS (Not Approved)

The design and construction the same as the Sherman Ground clamps, the only difference being in thickness of copper, which is lighter than required for approved clamps. For Radio, No. 2 size will probably fit all requirements, being the correct size for radiator piping.

101	3/8-1	1000	100	$12.00
102	3/8-2	1000	100	19.00
103	3/8-3	500	50	25.00



GROUNDING BUSHINGS LOCKING TYPE

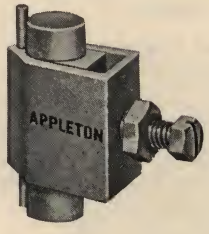
No.	Size In.	Std. Pkg.	Ctn. Quan.	List Price per 100	No.	Size In.	Std. Pkg.	Ctn. Quan.	List Price per 100
GF-9450M	½	100	50	$40.00	GF-9453M	1¼	50	25	$93.30
GF-9451M	¾	100	50	50.60	GF-9454M	1½	50	25	154.60
GF-9452M	1	50	25	68.00	GF-9455M	2	25	10	165.30



GROUNDING LOCKNUTS

The set screw wedges its way between the knockout and conduit, cutting into the steel and forming a perfect bond. Cadmium finish only.

GF-9425	½	100	100	$21.00	GF-9428	1¼	50	50	$48.00
GF-9426	¾	100	100	26.40	GF-9429	1½	50	50	62.40
GF-9427	1	50	50	38.40	GF-9430	2	25	25	84.00



TYPE GCRC GROUND ROD FITTING

Takes bare or insulated copper wire sizes 8 and 6 or No. 4 B&S.

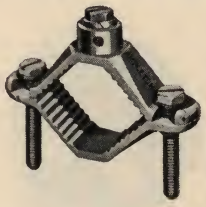
No.	Size Grounding	Std. Pkg.	Ctn.	List Price per 100
GF-9447	Fits ½ & ⅜" ground rod	25	5	$61.30



TYPE GCWC FITTING

Adapted for No. 8, 6 or 4 B&S bare or insulated copper wire.

GF-9489	½, ¾ or 1" water pipe 1" ground rod	25	5	$85.30



TYPE LGCH GROUND FITTINGS

Furnished with a hole through the deck to take 8, 6 or 4 bare or insulated copper wire which is held in place by the center screw and lock washer.

No.	Style	Size of Water Pipe	Std. Pkg.	Ctn.	List Price per 100
GF-9497	V	1¼, 1½, 2"	10	5	$146.60
GF-9498	Shaded	2½ and 3"	10	5	373.20
GF-9499	Clamp	3½ and 4"	10	5	519.90



GROUND FITTINGS

For grounded service wire and conduit system.

TYPE GCH FITTING

For No. 8 and No. 6 bare armored ground conductor.

No.	Size of Water Pipe	Std. Pkg.	Ctn.	List Price per 100
GF-9445	½, ¾ and 1"	25	5	$113.30



TYPE GCNS Non-Swivel Fitting

Adapted for No. 8, to 4 B&S armored ground wire.

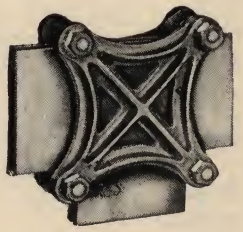
No.	Size Grounding	Std. Pkg.	Ctn.	List Price per 100
GF-9493	½, ¾ or 1" water pipe ½ to 1" ground rod	25	5	$106.60

O.Z. POWER CONNECTORS FOR COPPER BUS BAR



Type AC

Bolts furnished will accomodate total bar thickness up to 1". Longer bolt can be furnished at slight additional charge, if required distance between clamp faces is specified.



Type HC

Width of Bars Main	Tap	No.	List Price Each	No.	List Price Each
2"	2"	AC 22	$ 3.10	HC 22	$ 4.05
3"	2"	AC 32	3.40	HC 32	4.35
3"	3"	AC 33	3.60	HC 33	4.50
4"	2"	AC 42	4.35	HC 42	5.45
4"	3"	AC 43	4.65	HC 43	5.90
4"	4"	AC 44	4.80	HC 44	6.05
5"	2"	AC 52	6.20	HC 52	8.10
5"	3"	AC 53	6.70	HC 53	8.55
5"	4"	AC 54	7.00	HC 54	8.85
5"	5"	AC 55	7.30	HC 55	9.15
6"	2"	AC 62	10.55	HC 62	13.65
6"	3"	AC 63	11.20	HC 63	14.30
6"	4"	AC 64	11.50	HC 64	14.60
6"	5"	AC 65	11.80	HC 65	14.90
6"	6"	AC 66	12.10	HC 66	15.20

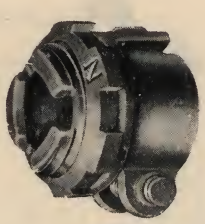
Sizes other than listed readily supplied.

NATIONAL CONNECTORS



2163

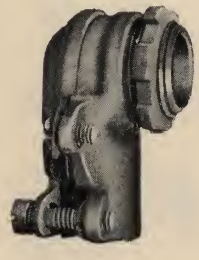
EZ HINGED STRAP TYPE FOR ARMORED CABLE AND FLEXIBLE CONDUIT



2166

FITS SIZES SHOWN

No.	K.O. Size	Armored Cable	Lead Cable	Flexible Conduit	Unit Pkg.	Std. Pkg.	List Price Per 100
2163-EZ	½″	14/2-14/3-12/2-12/3 10/2- 8/1- 6/1- 4/1 2/1	14/2-14/3-12/2 12/3- 8/1- 6/1 4/1	⅜″	50	1000	$17.80
2165-EZ	½″	12/3-10/2-10/3	14/2-14/3-12/2 12/3-10/2		50	500	28.90
2166-EZ	½″	8/2- 8/3- 6/2	12/3-10/2-10/3 8/2- 8/3	½″	25	100	18.80
2166-X-EZ	¾″	8/3- 6/2- 6/3	10/4- 8/2- 8/3	¾″	25	100	39.10
2167-EZ	¾″	6/3- 4/2- 4/3	6/2- 6/3	1″	5	25	57.80
2169-EZ	1″			1¼″	5	10	94.90
2170-EZ	1¼″			1½″	5	10	163.70
2171-EZ	1½″			2″	5	10	242.00
2172-EZ	2″			2½″	5	5	334.00
2173-S	2½″			3″	5	5	532.40
2174-S	3″						



NATIONAL ANGLE BOX CONNECTORS

90° Open Back Type
For Armored Cable, Lampcord and Flexible Conduit

FITS SIZES SHOWN

No.	K.O. Size	Armored Cable	Lead Cable	Lamp Cord Plain	Flexible Conduit	Unit Pkg.	Std. Pkg.	List Price Per 100
2210-EZ	½″	14/2-14/3		14/2				
		12/2- 4/1	6/1	14/3	⅜″	20	100	$38.10
2211-EZ	½″	8/3	10/3-8/2		½″	20	100	57.80
2214-EZ	¾″	6/3- 4/2	6/2					
		4/3	6/3		¾″	10	50	86.70
2216-EZ	1″	2/3			1″	20	20	130.70
2218-EZ	1¼″				1¼″	10	10	233.80
2234-EZ	1½″				1½″	10	10	412.50
2236-EZ	2″				2″	5	5	605.00
2238-EZ	2½″				2½″	5	5	1,621.40
2240-EZ	3″				3″	5	5	2,162.60



45° Open Back Type
For Armored Cable, Lampcord and Flexible Conduit

2208-EZ	½″	14/2-14/3	6/1	14/2-14/3	⅜″	20	100	
		12/2- 4/1						$37.80
2209-SO	½″	8/3- 6/2	10/3		½″	20	100	63.30
2215-SO	¾″	4/2- 4/3	6/2-6/3		¾″	10	50	95.00
2217-SO	1″				1″	20	10	198.80
2219-SO	1¼″				1¼″	10	10	240.20



FOR ARMORED CABLE AND FLEXIBLE CONDUIT

For Use in Taking Two Armored Cables into One ½″ Knockout

FITS SIZES SHOWN

No.	K.O. Size	Armored Cable	Flexible Conduit	Unit Pkg.	Std. Pkg.	List Price Per 100
2175-EZ	½″	14/2-14/3 12/2- 4/1	⅜″	20	100	$42.70

NATIONAL LOOMWIRE CONNECTORS



"Rock-in" Type

Rustproofed Finish

No.	For Loom Wire	Std. Pkg.	List Price Per 100
9049-EZ	14/2-14/3-12/2-12/3	1000	$14.10
9050-EZ	14/2-14/3-12/2-12/3	1000	17.80

U.S. Patent No. 1,776,651
.584″ open .343″ closed

NATIONAL CONDUIT COUPLINGS



Tangent Set Screw Type
For Flexible Steel Conduit
Rustproofed Finish

No.	For Conduit	Unit Pkg.	Std. Pkg.	List Price Per 100
2184	½″	10	100	$86.20
2185	¾″	10	100	111.80
2186	1″	5	50	151.50
2187	1¼″	5	50	205.00
2188	1½″	5	25	279.10
2189	2″	5	25	406.90



Squeeze Type
Rigid to Flexible
Rustproofed Finish

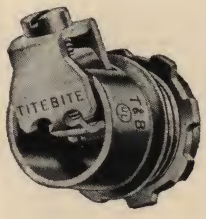
2190-S	½″	10	50	$76.60
2191-S	¾″	10	50	105.60
2196-S	2½″	5	10	990.00
2198-S	3″	5	..	1,386.00



EZ Hinged Strap Type
Rigid to Flexible
Rustproofed Finish

2192-EZ	1″	5	25	$147.80
2193-EZ	1¼″	5	25	213.80
2194-EZ	1½″	5	25	316.80
2195-EZ	2″	5	10	448.80

TITE-BITE CONNECTORS



STRAIGHT CONNECTORS

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
300	⅜″	1000	100	$21.80
301	⅜″A	100	50	45.50
302	½″	100	50	45.50
303	¾″S	100	50	52.00
304	¾″	100	25	52.00
305	1″S	25	10	85.00
306	1″	25	10	$85.00
308	1¼″	10	5	142.00
310	1½″	10	5	252.00
312	2″	10	5	370.00
314	2½″	5	2	590.00
316	3″	5	2	930.00



FOR ARMORED OR NON-METALLIC CABLES

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
3101	⅜″	100	50	$24.60



TWO-SCREW FOR ARMORED CABLE

3301	⅜″	1000	100	$21.80

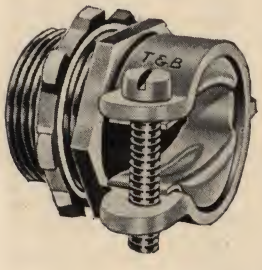
TWO-SCREW, FOR NON-METALLIC CABLES

3302	⅜″	1000	100	$19.20
3303	¾″	100	25	56.50
3304	1″	50	10	77.50
3920	1¼″	25	5	118.00



SET SCREW CONNECTOR

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
240	⅜″	1000	100	$17.60
241	½″	100	50	38.40



SQUEEZE STRAIGHT CONNECTORS

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
253	⅜″	1000	100	$20.80
250	¼″	100	50	72.00
252	5/16″	100	50	72.00
*250A	¼″	100	50	80.00
*252A	5/16″	100	50	80.00
260	⅜″A	100	50	43.00
254	½″	100	50	43.00
278	⅜″S	100	25	50.00
255	¾″	100	25	50.00
264	1″S	25	10	$80.00
256	1″S	25	10	80.00
257	1¼″	10	5	138.00
258	1½″	10	5	240.00
259	2″	10	5	352.00
249	2½″	5	2	560.00
277	3″	5	2	880.00

*With ½″ adapter.



DUPLEX SET SCREW CONNECTOR

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
239	⅜″	100	25	$49.50

CONNECTORS FOR NON-METALLIC SHEATHED CABLE



2020

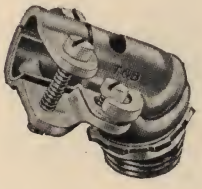


3100



2005

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
2020	⅜″	1000	100	$15.20
3100	⅜″	1000	100	21.80
2005	½″	1000	100	57.50
2006	½″	100	50	77.00
2007	¾″	50	25	$115.00
2008	¾″	50	25	115.00
2009	1″	20	10	154.00



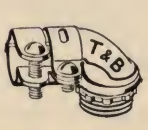
SQUEEZE 45° ANGLE CONNECTORS

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
265	⅜″	100	25	$44.00
267	½″	100	25	80.00
269	¾″	50	25	111.00



90° ANGLE CONNECTORS

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
321	⅜″	100	50	$48.00
322	⅜″A	100	50	88.00
323	½″	100	25	88.00
323V8	½″	100	25	88.00
324	¾″S	50	25	134.00
325	¾″	50	25	134.00
326S	1″S	25	10	202.00
326	1″	25	10	$202.00
327	1¼″	10	5	370.00
328	1½″	10	5	640.00
329	2″	5	2	930.00
330	2½″	5	2	2560.00
331	3″	5	2	3600.00



SQUEEZE 90° ANGLE CONNECTORS

No.	Size	Std. Pkg.	Unit Quan.	List Price Per 100
266	⅜″	100	50	$45.00
299	⅜″	100	50	45.00
280	⅜″	100	50	45.00
272	⅜″A	100	25	83.00
268	½″	100	25	83.00
279	¾″S	50	25	126.00
270	¾″	50	25	$126.00
273	1″	25	10	192.00
274	1¼″	10	5	352.00
275	1½″	10	5	610.00
276	2″	5	2	880.00



BC-7285V

APPLETON
NON-WATERTIGHT CONNECTORS

Malleable Iron—Cadmium Finish

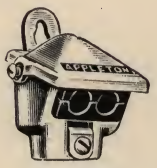
No.	Size In.	Fits K.O. or Threaded Fitting	Size of Cable Type SE & SD Ins. Cond.	Bare Neutral	Std. Pkg.	Cart. Quan.	List Price Per 1000
BC-7285V	⅜	½"	1-14	1-14	1000	100	**$181.30**
			1-12	1-12			
			2-12	1-12			
			1-10	1-10			
			2-10	1-10			
			1-8	1-8			


BC-7288V



BC-15233

BC-7288V	½	¾"	1-6	1-6	100	20	**413.20**
			1-4	1-6			
			1-4	1-4			
BC-15233	¾	¾"	2-8	1-10	40	20	**469.20**
			2-8	1-8			
			1-8	1-10			
			1-8	1-8			
			1-6	1-8			
			1-6	1-6			
			1-4	1-6			
			1-4	1-4			
			1-2	1-4			
			1-2	1-2			
			1-1	1-1			
BC-15234	1	1"	1-2	1-4	20	5	**654.20**
			1-2	1-2			
			1-1	1-1			
			2-6	1-8			
			2-6	1-6			
			2-4	1-6			
			2-4	1-4			



OF-15200

APPLETON ENTRANCE FITTINGS

No.	Size of Cable Type SE & SD Ins. Cond.	Bare Neutral	Std. Pkg.	Cart. Quan.	List Price Per 100
OF-15200	1-12	1-12	50	5	**$110.60**
	2-12	1-12			
	1-10	1-10			
	2-10	1-12			
	2-10	1-10			
	1-8	1-8			
	2-8	1-10			
	2-8	1-8			
	1-6	1-8			
	1-6	1-6			
	1-4	1-6			
	1-4	1-4			
OF-15201	2-6	1-8	50	5	**122.60**
	2-6	1-6			
	2-4	1-6			
	2-4	1-4			
	1-2	1-2			



ENTRANCE CAPS
FOR SERVICE ENTRANCE CABLE

No.	Max.	Std. Pkg.	Unit Quan.	Wgt. Per 100	List Price Per 100
5549.2—#6		50	5	16	**$101.00**
5550.3—#6 or 3—#8		50	5	20	**133.00**
5551.3—#4 or 3—#8		50	5	30	**147.00**
5536.3—#2		10	2	80	**350.00**



APPLETON SILL PLATES

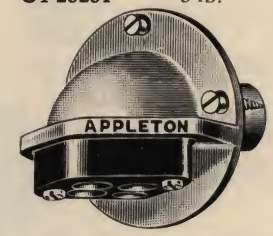
Cast aluminum—complete with hot-dipped galvanized wood screws. These plates provide metallic protection to the Service Entrance Cable at the most hazardous point, that is, where it enters the house. Do away with unsightly bends and make a more finished and safer installation.

WITH DUXSEAL WEATHERPROOF COMPOUND

No.	Fits Cable	Std. Pkg.	Cart. Quan.	List Price Per 100
OF25235	All sizes to 3 Cond. #4	100	10	**$58.60**
OF25236	3 Cond. to #2	100	10	**88.00**

DUXSEAL WEATHERPROOF COMPOUND

No.	Pkg. Size	List Price Per Pkg.
OF25250	1 lb.	**$1.40**
OF25251	5 lb.	**5.40**



APPLETON
FLANGED TYPE REA
ENTRANCE FITTINGS

For out building service entrance. Flange type entrance fitting complete with three hot galvanized wood screws and with DuxSeal Compound which is used to fill up the hole when the plate is screwed down thus preventing water from seeping into the building.

No.	Back Hub Conduit Size	Std. Pkg.	Cart. Quan.	List Price Per 100
EF-REA-26	½"	24	1	**$144.00**



APPLETON
UNIVERSAL CABLE CLAMPS

Malleable Iron

No.	Fits Any Type Service Cable Listed Below	Std. Pkg.	Cart. Quan.	List Pr. Per 100
OF-15275	2-12, 2-10, 2-8, 2-6, 1-8, 1-10, 1-6, 1-8 and 3-12	100	100	**$7.70**
OF-15276	2-4, 1-4, 1-6, 3-10, 2-10, 1-12, 3-8, 2-8, 1-10, 3-6, 2-6 and 1-8	100	100	**8.50**
OF-15277	2-2, 1-2, 1-4, 3-4, 2-4, 1-6, 3-2, 2-2 and 1-4	100	100	**9.10**



WATERTIGHT CONNECTORS

Two-Screw and Nut Types



Two-Screw Type†	Nut Type‡	Size	Size of Opening For Cable	SIZE OF CABLE Ins. Cond.	SIZE OF CABLE Bare Neutral	Underwriter's Type of Cable	Std. Pkg.	Ctn.	List Price Per 100
				1—12	1—12	SE			
				1—10	1—10	SE			
OF-2075A	**OF-1075A**	¾"	Round 7/16"	1—8	1—10	SD	100	10	**$77.30**
				1—8	1—8	SD			
				1—12	1—12	SE			
			Round	1—10	1—10	SE			
OF-2100B	**OF-1100B**	1"	7/16"	1—8	1—10	SD	100	10	**96.00**
				1—8	1—8	SD			
				1—8	1—10	SE			
			Round	1—8	1—8	SE			
OF-2075C	**OF-1075C**	¾"	15/32"	1—6	1—8	SD	100	10	**77.30**
				1—6	1—6	SD			
				1—8	1—10	SE			
			Round	1—8	1—8	SE			
OF-2100D	**OF-1100D**	1"	15/32"	1—6	1—8	SD	100	10	**96.00**
				1—6	1—6	SD			
				1—6	1—8	SE			
OF-2075E	**OF-1075E**	¾"	Round 9/16"	1—6	1—6	SD	100	10	**77.30**
				1—4	1—6	SD			
				2—10	1—10	SE			
OF-2075F	**OF-1075F**	¾"	Oval 17/32"x25/32"	2—8	1—10	SE & SD	100	10	**77.30**
				2—8	1—8	SD			
				2—10	1—10	SE			
OF-2100G	**OF-1100G**	1"	Oval 17/32"x25/32"	2—8	1—10	SE & SD	100	10	**96.00**
				2—8	1—8	SD			
				2—8	1—8	SE			
OF-2100H	**OF-1100H**	1"	Oval ⅝"x⅜"	2—6	1—8	SE & SD	100	10	**96.00**
				2—6	1—6	SE & SD			
			Oval	2—4	1—6	SE & SD			
OF-2100J	**OF-1100J**	1"	11/16"x63/64"	2—4	1—4	SE & SD	100	10	**96.00**
.....	**OF-1125K**	1¼"	Oval 13/16"x1⅛"	2—2	1—4	SE & SD			
				2—2	1—2	SE & SD	50	5	**199.90**

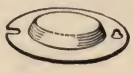
†Made from non-ferrous metal—will not rust. ‡Malleable Iron, Cadmium Finish.

OUTLET BOXES AND COVERS

3¼" OCTAGONAL BOXES AND COVERS


24151½

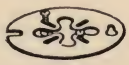

24151 Special

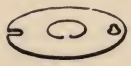

24C2

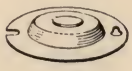

24C1


24C12


24C36


24C28

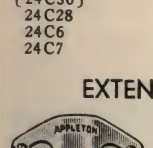

24C6


24C7

Univ. Key No.	Deep	K.O. Sides	Std. Pkg.	Galv. List Price Per 100
24151½	1½"	4½"	50	$38.88
24154¾	1½"	4¾"	50	42.60
24151 Special	1½"	2-½", 2-¾"	50	42.60

Univ. Key No.	Description	Std. Pkg.	Galv. List Price Per 100
24C2	Raised, Closed	100	14.64
24C1	Flat, Blank	100	12.36
24C12	Raised with ⅜" Steel Bushing	100	15.12
OB-8303	Flat with Cord Grip	100	96.48
24C35 / 24C36	Raised 1½" Hole for Sign Receptacles	100	14.76
24C28	Flat Spider with Bolts	100	17.04
24C6	Flat ½" K.O. in Center	100	13.92
24C7	Raised ½" K.O. in Center	100	16.68

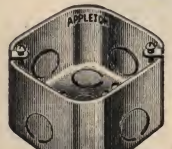
EXTENSION RINGS FOR 3¼" SQUARE BOXES

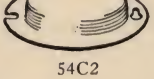

25151½

Univ. Key No.	Deep	K.O. Sides	Std. Pkg.	List Price Per 100
25151½	1½"	4½"	50	$64.20
25151¾	1½"	4¾"	50	64.20

4" OCTAGONAL BOXES AND COVERS


54151½


54171½


54C2


54C3


54C48

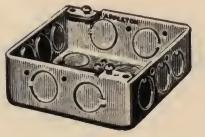

54C14


54C36

54151½	1½"	4-½" K.O. in side, 5-½" K.O. in bottom	50	$42.24
54151¾	1½"	1-¾" K.O. in each side, 3-½" and 2-¾" K.O. in bottom	50	49.68
54151 Special	1½"	2-½" and 2-¾" K.O. in sides, 3-½" and 2-¾" K.O. in bottom	50	49.68
54171½	2⅛"	4-½" K.O. in sides, 5-½" K.O. in bottom	50	71.04
54171¾	2⅛"	4-¾" K.O. in sides, 3-½" and 2-¾" K.O. in bottom	50	71.04
54171-1	2⅛"	4-1" K.O. in sides, 3-½" and 2-¾" K.O. in bottom	50	71.04
54171 Special	2⅛"	2-½" and 2-¾" K.O. in sides, 3-½" and 2-¾" K.O. in bottom	50	71.04

Univ. Key No.	Description	Std. Pkg.	Galv. List Price Per 100
54C1	Flat, Blank	100	$14.76
54C2	Raised, Closed ⅝" High	100	17.64
54C3	Raised, ⅝" Open with Ears 2-23/32 C to C	100	22.80
OB-8409D	Raised, 1¼" Open with Ears 2-23/32" C to C	100	98.06
54C48	Raised, Open	100	18.72
54C12	Raised with ⅜" Steel Bushing	100	19.32
54C6	Flat, ½" K.O. in Center	100	16.08
54C7	Raised, ½" K.O. in Center	100	19.32
54C28	Flat, Spider with Bolts	100	19.08
54C35 / 54C36	Raised, 1½" Hole for Sign Recep.	100	19.44
54C14	Raised for Single Flush Device	100	36.24
OB-8439	Raised for Use with Combination Joints	100	28.04
OB-8441	Flat with Cord Grip	100	110.48

4" SQUARE BOXES AND COVERS


52151½


52C48


52C3


OB-8461-D


52C12

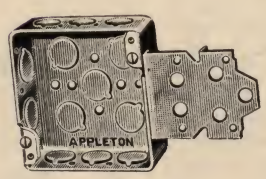

52C6


52C14


52C36

Univ. Key No.	Deep	—Knockouts— Bottom	Sides	Std. Pkg.	Galv. List Price Per 100
52151½	1½"	5-½"	10-½"	50	$51.72
52151¾	1½"	3-½" & 2-¾"	2-¾"	50	57.60
52151 Special	1½"	3-½" & 2-¾"	2-½" & 1-¾"	50	57.60
52141-½	1¼"	5-½"	10-½"	50	51.72
52171-½	2⅛"	5-½"	10-½"	50	179.16
52171-¾	2⅛"	2-¾" & 3-½"	8-¾"	50	179.16
52171-1	2⅛"	3-½" & 2-¾"	8-1"	50	179.16
OB-4SD Special	2⅛"	3-½" & 2-¾"	2-½" & 1-¾"	50	179.16

Univ. Key No.	Description	Std. Pkg.	Galv. List Price Per 100
52C48	Raised, Open	100	$28.80
52C3	Raised, ⅝" Open, Ears 2-23/32 C to C	100	29.76
8461D	Raised, 1¼" Open, Ears 2-23/32" C to C	100	133.82
52C2	Raised, Closed, ⅝" High	100	22.44
52C12	Raised, ⅜" Steel Bushing	100	25.92
52C1	Flat, Blank	100	17.16
52C16	Raised, 1¼" for Single Device	100	49.56
52C15	Raised, 1" for Single Device	100	42.36
52C15⅞	Raised, ⅞" for Single Device	100	42.58
52C14	Raised, ¾" for Single Device	100	33.60
52C14⅝	Raised, ⅝" for Single Device	100	42.58
52C13	Raised, ½" for Single Device	100	30.12
52C62	Raised, ¼" for Single Device	100	30.60
OB8468F	Flat for One Single Device	100	36.96
52C21	Raised, 1¼" for Two Devices	100	58.44
52C19	Raised, Flush 1" for Two Devices	100	54.12
52C18	Raised, ¾" for Two Devices	100	40.44
52C18⅝	Raised, ⅝" for Two Devices	100	52.58
52C17	Raised, ½" for Two Devices	100	40.08
52C20	Raised, ¼" for Two Devices	100	36.84
8470F	Flat for Two Devices	100	50.04
52C10	Raised, ¼" Offset for Single at Side, Other Gang Blank	100	38.88
52C35 / 52C36	Raised, 1½" Hole for Ring Receptacles	100	35.64
52C6	Flat, ½" K.O. in Center	100	21.96
52C7	Raised, ½" K.O. in Center	100	26.76
52C28	Flat, Spider with Bolts	100	39.00


52151-B

4" SQUARE BOXES—WITH BRACKET—NO LATH SUPPORT

52151-B-½	Box is 4" Sq., 1½" deep with three ½" K.O. in each of two opposite sides, two in one side opposite bracket, and five ½" K.O. in bottom	50	$57.36
52151-B Special	Box is 4" Sq., 1½" deep with combination of two ½" and one ¾" K.O. in each of three sides (none in bracket side) and combination of three ½" and two ¾" K.O. in bottom	50	63.22

SURFACE COVERS

FOR 4" SQUARE BOXES


OB-8360


OB-8364


OB-8366


OB-8378

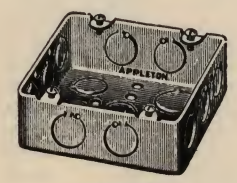

OB-8372


OB-8374


OB-8376

No.	Depth Cover	Description	Std. Pkg.	Galv. List Price Per 100
OB-8360	1/8"	For one toggle switch	50	**$33.72**
OB-8361	1/2"	For one toggle switch	50	**33.72**
OB-8362	1/8"	For one single flush receptacle	50	**33.72**
OB-8363	1/2"	For one single flush receptacle	50	**33.72**
OB-8364	1/8"	For one duplex flush receptacle	50	**33.72**
OB-8365	1/2"	For one duplex flush receptacle	50	**33.72**
OB-8366	1/8"	For two toggle switches	50	**42.96**
OB-8367	1/2"	For two toggle switches	50	**42.96**
OB-8368	1/8"	For two single flush receptacles	50	**42.96**
OB-8369	1/2"	For two single flush receptacles	50	**42.96**
OB-8370	1/8"	For two duplex flush receptacles	50	**42.96**
OB-8371	1/2"	For two duplex flush receptacles	50	**42.96**
OB-8372	1/8"	For one toggle switch and one	50	**42.96**
OB-8373	1/2"	single flush receptacle	50	**42.96**
OB-8374	1/8"	For one toggle switch and one	50	**42.96**
OB-8375	1/2"	duplex flush receptacle	50	**42.96**
OB-8376	1/8"	With one-hole strap for P&S Despard, Bryant "IL" or Hubbard "LS" wiring devices	50	**56.40**
OB-8378	1/8"	With three hole strap for P&S Despard, Bryant "IL" or Hubbell "LS" wiring devices	50	**68.40**

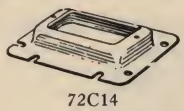
4-11/16" SQUARE BOXES


72151-1/2

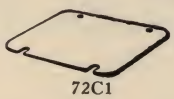
Universal Key No.	Description	Std. Pkg.	Galv. List Price Per 100
72151-1/2	4 11/16" Sq., 1 1/2" deep, 2—1/2" K.O. in two sides, 3—1/2" K.O. in two opposite sides, and combination of 3—1/2" and 2—3/4" K.O. in bottom....	50	**$175.68**
72151-3/4	4 11/16" Sq., 1 1/2" deep, 2—3/4" K.O. in two sides, comb. of 1—3/4" and 2—1/2" K.O. in two opposite sides and combination of 2—3/4" and 3—1/2" K.O. in bottom.....	50	**175.68**
72171-1/2	4 11/16" Sq., 2 1/8" deep, 2—1/2" K.O. in two sides, comb. of 2—1/2" and 1—3/4" K.O. in two opposite sides and combination of 3—1/2" and 2—3/4" K.O. in bottom.....	50	**179.52**
72171-3/4	4 11/16" Sq., 2 1/8" deep, 2—3/4" K.O. in two sides, comb. of 1—3/4" and 2—1/2" K.O. in two opposite sides and combination of 2—3/4" and 3—1/2" K.O. in bottom.....	50	**179.52**
72171-1	4 11/16" Sq., 2 1/8" deep, 2—1" K.O. in each side and combination of 2—3/4" and 3—1/2" K.O. in bottom.....	50	**179.52**

4-11/16" BOX COVERS


72C2


72C14


72C18

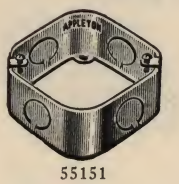

72C1


72C3

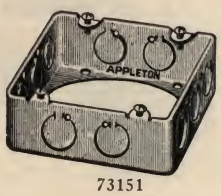
Universal Key No.	Description	Std. Pkg.	Galv. List Price Per 100
72C2	Raised, closed	50	**$ 89.52**
72C48	Raised, open	50	**89.52**
72C14	Raised, 3/4" for single flush device	50	**89.52**
OB-8485A	Raised, 1/2" for single flush device	50	**89.52**
OB-8485B	Raised, 1/4" for single flush device	50	**89.52**
72C18	Raised, 3/4" for 2 flush devices	50	**108.48**
72C1	Flat, blank	50	**71.88**
72C3	Raised, open, ears 2-23/32" C to C	50	**89.52**
72C7	Raised, with 1/2" K.O. in center	50	**72.36**
OB-8489A	Raised for Hubbell 4-wire receptacles 7294 and 7301	50	**118.68**

EXTENSION RINGS

FOR 4" OCTAGONAL ALSO 4" AND 4-15/16" SQUARE BOXES


55151


53151


73151

Universal Key No.	Oct.	Deep	Inside	Std. Pkg.	Galv. List Price Per 100
55151-1/2	4"	1 1/2"	4—1/2"	50	**$65.16**
55151-3/4	4"	1 1/2"	4—3/4"	50	**65.16**
OB-40E Special	4"	1 1/2"	4—3/4"	50	**65.16**

No.	Sq.	Deep	K. O. Inside	Std. Pkg.	Galv. List Price Per 100
53151-1/2	4 "	1 1/2"	10—1/2"	50	**$ 69.24**
53151-3/4	4 "	1 1/2"	8—3/4"	50	**69.24**
73151-1/2	4 11/16"	1 1/2"	10—1/2"	25	**199.80**
73151-3/4	4 11/16"	1 1/2"	2—3/4" in two sizes 1—3/4" and 2—1/2" in two opposite sides	25	**199.80**
73171-1/2	4 11/16"	2 1/8"	2—1/2" in two sides, Comb. of 2—1/2" and 1—3/4" in two opposite sides	25	**209.88**
73171-3/4	4 11/16"	2 1/8"	2—3/4" in two sides, comb. of 2—1/2" and 1—3/4" in two opposite sides	25	**209.88**
73171-1	4 11/16"	2 1/8"	8—1" in sides	25	**209.88**

3 1/4" AND 4" ROUND COVER WITH OPENINGS

FOR SINGLE AND DOUBLE RECEPTACLES


OB-8314LR


OB-8419LR


OB-8420LR

No.	Description	Std. Pkg.	Galv. List Price Per 100
OB-8314LR	3/4" Diam. for duplex receptacle	100	**$21.00**
OB-8419LR	4 " Diam. for single receptacle	100	**27.24**
OB-8420LR	4 " Diam. for duplex receptacle	100	**27.24**

SOLID CONDUIT GANG SWITCH BOXES AND COVERS


OB-GSB4 Box


OB-GSC4 Cover

BOXES ONLY

No.	No. Gangs	Depth	Width	Length	Std. Pkg.	Galv. List Price Per 100
OB-GSB2	2	2″	4″	6⅞″	5	**$225.12**
OB-GSB3	3	2″	4″	8 11/16″	5	**324.84**
OB-GSB4	4	2″	4″	10½″	5	**423.96**
OB-GSG5	5	2″	4″	12 5/16″	5	**576.60**
OB-GSB6	6	2″	4″	14⅛″	1	**1127.88**

COVERS ONLY

No.	Deep	No. Gangs	Std. Pkg.	Galv. List Price Per 100
OB-GSC2	¾″	2	5	**$ 99.36**
OB-GSC3	¾″	3	5	**149.38**
OB-GSC4	¾″	4	5	**225.12**
OB-GSC5	¾″	5	5	**275.28**
OB-GSC6	¾″	6	1	**524.16**

Can be furnished up to 10 gangs, either ½ or ¾-inch K.O. All orders must specify which size is wanted.

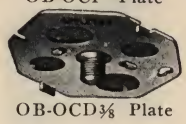
OCTAGONAL CONCRETE RINGS AND PLATES

Bottom plates and lugs in rings are so made that concrete will not seep through into box while concrete is being poured.



54561


OB-OCP Plate


OB-OCD⅜ Plate



OB-OCR3½

Univ. Key No.	Depth	Description	Std. Pkg.	Galv. List Price Per 100
54521	1½″		100	**$ 59.28**
54531	2 ″		50	**78.56**
54541	2½″		50	**102.12**
54551	3 ″	4⅜″ Oct. 4-½ and	50	**102.72**
54561	3½″	4-¾″ K.O. insides.	50	**122.88**
54571	4 ″		25	**138.00**
54581	5 ″		25	**156.96**
54591	6 ″		25	**189.36**
OB-OCRS3	3 ″		50	**102.72**
OB-OCRS3½	3½″		25	**122.88**
OB-OCRS4	4 ″	4⅜″ Oct. 4-¾″ and	25	**138.00**
OB-OCRS5	5 ″	4-1″ K.O. in sides.	25	**156.96**
OB-OCRS6	6 ″		25	**189.36**
OB-OCP	Plate	4⅜″ Oct. 3-½″ and 2¾″ K.O. without fixture stud	50	**29.76**
OB-OCP⅜	Plate	Same as OCP with ⅜″ fixture stud ..	50	**36.12**
OB-OCP½	Plate	Same as OCP with ½″ fixture stud ..	50	**47.28**


OB-532-L

COMBINATION BOXES

For Flexible Steel Conduit and Armored Cable.


OB-533-L

No.	Diam.	Depth	Features	Types of Clamps Furnished	Bottom KO's 21/32″	Bottom KO's ½″ Cond.	Std. Pkg.	Galv. List Pr. Per 100
OB-523L	3½″	¾″	With Ears and Fixture Stud	CL-6	4	None	50	**$65.88**
OB-533L	3½″	¾″	With Ears, No Fixture Stud	CL-6	4	3	50	**57.72**

COMBINATION BOXES

For non-metallic sheathed cable and non-metallic flexible tubing.


36115-C


24155-C


56113-C

Univ. Key No.	Diam.	Depth	Features	Types of Clamps Furnished	Bottom KO's 31/32″	Bottom KO's ½″ Cond.	Std. Pkg.	Galv. List Pr. Per 100
36115-C	3½″	½″	With Ears	CL-5	4	3	50	**$40.92**
36125-C	3½″	¾″	With Ears	CL-5	4	3	50	**49.92**
24155	3½″	1½″	With Ears	None	4	3	50	**60.24**
24155-C	3½″	1½″	With Ears	CL-5	4	3	50	**62.64**
56113-C	3½″	½″	With Ears	CL-5	8	1	50	**45.50**

With side mounting ears for flexible steel conduit and armored cable.



OB-550-L

For Flexible Steel Conduit and Armored Cable

With two-way knockout closing clamps. One screw may be used for bonding.



OB-551-L

No.	Diam.	Depth	⅜″ Stud	Ears	Type of Clamp Furnished	Bottom KO's 21/32″	Bottom KO's ½″ Conduit	Std. Pkg.	Galv. List Pr. Per 100
OB-550LXE	3½″	1½″	No	Yes	CL-25	4	1	50	**$71.04**
OB-550LFSXE	3½″	1½″	Yes	Yes	CL-25	4	—	50	**83.04**
OB-551LXE	4″	1½″	No	Yes	CL-25	4	3	50	**76.56**
OB-550L	3½″	1½″	No	Yes	CL-25	4	1	50	**62.64**
OB-551L	4″	1½″	No	Yes	CL-25	4	3	50	**68.16**

FOR NON-FLEXIBLE SHEATH CABLE AND FLEXIBLE TUBING



OB-560L



OB560LFS



OB-561L

No.	Description	Std. Pkg.	Galv. List Pr. Per 100
OB-560L	Box 3½″ Oct., 1½″ Deep with CL-26 Clamps	50	**$62.64**
OB561L	Box 4″ Oct., 1½′ Deep with CL-26 Clamps	50	**68.16**
OB-560LFS	Box 3½″ Oct., 1½″ Deep with CL-26 Clamps—with Stud	50	**76.44**
OB-561LFS	Box 4″ Oct., 1½″ Deep with CL-26 Clamps—with Stud	50	**84.60**
OB-563L	Box 3½″ Rd., ¾″ Deep, No Stud and CL-24 Clamps with Ears	50	**57.72**
OB-564L	Box 3½″ Round, ¾″ Deep with CL-24 Clamps—with Ears and ⅜″ Stud.....	50	**68.76**

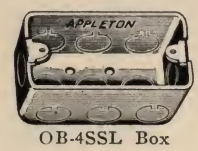
HANDY BOXES AND COVERS



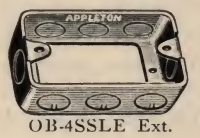
OB-4SS Box


OB-2520

Appleton Cat. No.		Std. Pkg.	Galv. List Price Per 100
OB-4SS	3¾" Long, 1½" Wide, 1½" Deep. Furnished with three knockouts in each side, two in bottom and one in each end for ½" conduit.....	100	**$61.80**
OB-2520	Steel Cover, Flat.....	200	**21.24**



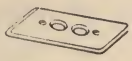
OB-4SSL Box



OB-4SSLE Ext.


OB-2540


OB-2555

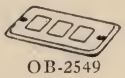

OB-2537


OB-2539


OB-2510

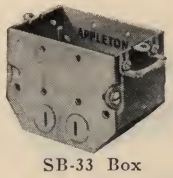

OB-2594


OB-2598

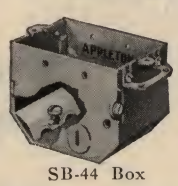

OB-2549

Appleton Cat. No.	Lgth.	Width	Depth	Description	Std. Pkg.	Galv. List Price Per 100
OB-4-CS-½ **OB-4-CS-¾**	4"	2⅛"	1⅞"	Furnished with three knockouts in each side, one in each end and three in bottom for ½" conduit. For ¾" conduit, two knockouts in each side, one in each end and two in bottom..	50	**$49.08**
OB-4-SSL-½ **OB-4-SSL-¾** **OB-4-SSL-1**	4"	2⅛"	2⅛"	Furnished with three knockouts in each side, one in each end and three in bottom for ½" conduit. For ¾" conduit, two knockouts in each side, one in each end and two in bottom. For 1" conduit, two knockouts in each side, one in each end and one in center of bottom	50	**54.00**
OB-4-SSLD-½ **OB-4-SSLD-¾** **OB-4-SSLD-1**	4"	2⅛"	2½"	Furnished with three knockouts in each side, one in each end and three in bottom for ½" conduit. For ¾" conduit, two knockouts in each side, one in each end and two in bottom. For 1" conduit, two knockouts in each side, one in each end and one in center of bottom	50	**222.16**
OB-4-SSLS-½	4"	2⅛"	1½"	Furnished with three knockouts in each side, one in each end and three in bottom for ½" conduit only	50	**49.08**
OB-4-SSLE-½				Extension, 4" long, 2⅛" wide, 1½" deep. 8—½" K.O. in sides and ends for Appleton Handy Boxes and Switch Boxes	100	**87.36**
OB-2540				Steel Cover, Raised, Blank.....	100	**15.48**
OB-2555				Steel Cover, with 1—½" K.O. in center.....	100	**21.00**
OB-2537				Steel Cover, Raised, for Double Push Button Switches	100	**26.04**
OB-2539				Steel Cover, Raised, for Flush Plug Receptacles (Without Lift Cover).....	100	**25.68**
OB-2510				Steel Cover, Raised, for Standard Duplex Receptacles	100	**24.96**
OB-2594				Steel Cover, Raised for Tumbler or Toggle Switches with Square Handle	100	**24.96**
OB-2598				Steel Cover, Raised, with one-hole strap for P&S-Despard Bryant "IL" or Hubbell "LS" Wiring Devices.	100	**59.12**
OB-2599				Steel Cover, Raised, with three-hole Strap for P&S-Despard Bryant "IL" or Hubbell "LS" Wiring Devices. (This Cover has three knockouts so that one, two or three devices may be used in a single-gang cover by removing knockouts to be utilized)	100	**59.88**

SWITCH BOXES



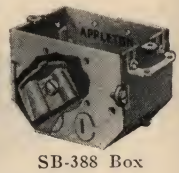
SB-33 Box



SB-44 Box



SB-387 Box



SB-388 Box

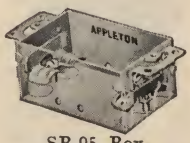
FOR NON-METALLIC SHEATHED CABLE AND NON-METALLIC FLEXIBLE TUBING

Both Sides Have Two Holes for 20 Penny Nails in Addition to Regular Nail Holes—Without Leveling Ridges—With Plaster Ears

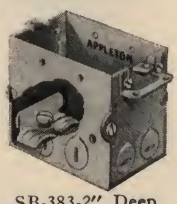
Appleton Cat. No.	DIMENSIONS Lgth.	Width	Depth	Type Clamp Furnished	KNOCKOUTS All ½" K.O.'s are for ½" Conduit Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-33	3"	2"	2¼"	None	2-21/32"	2-21/32"	1-½"	50	**$51.12**
SB-44	3"	2"	2¼"	CL-5	2-21/32"	2-21/32"	1-½"	50	**60.60**
SB-387	3"	2"	2¼"	CL-16	2-21/32"	2-21/32"	1-½"	50	**60.60**
SB-388	3"	2"	2¼"	CL-17	2-21/32"	2-21/32"	1-½"	50	**60.60**

SWITCH BOXES FOR NON-METALLIC SHEATHED CABLE

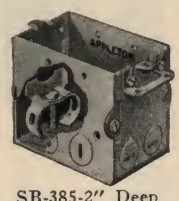
Stemco No.		Std. Pkg.	List Price Per 100
74D	Standard Box 3x2x2¼" with beveled corners, WITHOUT NAIL MOUNTING HOLES	50	**$53.70**
74DN	Standard Box with NAIL MOUNTING HOLES & LEVELING BUMPS	50	**54.00**
74DB	Standard Box with side mounting bracket	50	**59.00**



SB-95 Box (Solid)



SB-383-2" Deep
SB-384-2½" Deep

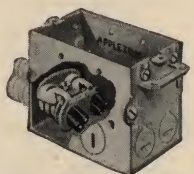


SB-385-2" Deep
SB-386-2½" Deep

FOR NON-METALLIC SHEATHED CABLE AND NON-METALLIC FLEXIBLE TUBING

Both Sides Have Two Holes for 20 Penny Nails in Addition to Regular Nail Holes—Without Leveling Ridges—With Plaster Ears

SB-95	3"	2"	1½"	CL-26	2-21/32" K. O. in end Corners			50	**$63.72**
SB-383	3"	2"	2 "	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**59.16**
SB-384	3"	2"	2½"	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**64.68**
SB-385	3"	2"	2 "	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**59.16**
SB-386	3"	2"	2½"	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**62.68**



SB-171F Box- 2" Deep
SB-173F Box-2½" Deep

FOR FLEXIBLE STEEL CONDUIT AND ARMORED CABLE

Both Sides Have Two Holes for 20 Penny Nails in Addition to Regular Nail Holes — Without Leveling Ridges — With Plaster Ears

SB-171F	3"	2"	2 "	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**$58.80**
SB-173F	3"	2"	2½"	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½"	50	**64.32**

SWITCH BOXES

FOR NON-METALLIC SHEATHED CABLE AND NON-METALLIC FLEXIBLE TUBING "VB" BRACKET SWITCH BOXES—NO LATH SUPPORT

Used in Wall Board, Beaver Board, Veneer Board and Plaster Board Construction

In order to simplify the electricians work in installations using wall board or veneer board, the "VB" Bracket Switch Box provides a simple solution to what ordinarily is a rather complicated task. The flat type "VB" Bracket spot-welded onto the long side of a Standard Switch Box, provides an easy means for solidly mounting the switch box to the wide side of a two by four, thus eliminating the need for channelling out the wall board or the studding. The "VB" Bracket Switch Box is easily fixed into place so that the edges of the switch box come perfectly flush with the outer surface of the board.

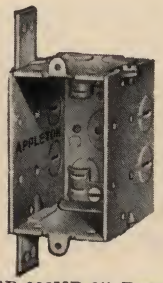
May also be used under ¾" Celotex or boards having a thickness up to ⅞"



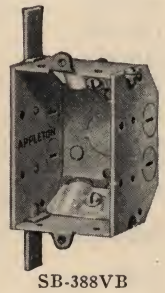
SB-33VB



SB-95VB

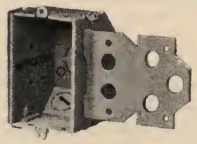


SB-383VB-2" Deep
SB-384VB-2½" Deep



SB-388VB

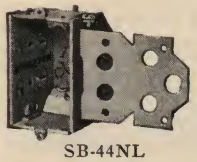
Appleton Cat. No.	Type Box Furnished	Dimensions L.	W.	D.	Type Clamp Furnished	Knockouts All ½" K.O.'s are for ½" Conduit Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-33VB	33	3"	2"	2¼"	None	2-21/32"	2-21/32"	1-½ "	50	$61.32
SB-44VB	44	3"	2"	2¼"	CL-5	2-31/32"	2-31-32"	1-½ "	50	66.00
SB-95VB	95	3"	2"	1½"	CL-26	2-21/32" K.O. in end Corners			50	80.86
SB-383VB	383	3"	2"	2 "	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	66.12
SB-384VB	384	3"	2"	2½"	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32
SB-385VB	385	3"	2"	2 "	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	66.12
SB-386VB	386	3"	2"	2½"	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32
SB-387VB	387	3"	2"	2¼"	CL-16	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	66.00
SB-388VB	388	3"	2"	2¼"	CL-17	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	66.00



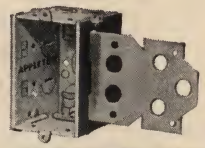
SB-33NL

FOR NON-METALLIC SHEATHED CABLE AND NON-METALLIC FLEXIBLE TUBING

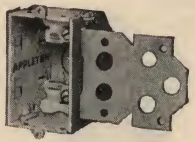
With Mounting Bracket—Less Lath Support



SB-44NL

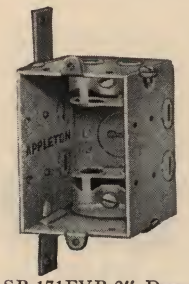


SB-383NL-2" Deep
SB-384NL-2½" Deep



SB-387NL

Appleton No.	Dimensions Length	Width	Depth	Supporting Ears	Knockouts in Ends, Sides and Bottom are for ½ or ¾ Inch Conduit as noted Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-33NL	3"	2"	2¼"	None	2-21/32"	2-21/32"	1-½ "	50	$64.56
SB-44NL	3"	2"	2¼"	CL-5	2-21/32"	2-21/32"	1-½ "	50	66.48
SB-95NL	3"	2"	1½"	CL-26	2-21/32" K.O. in end Corners			50	80.62
SB-383NL	3"	2"	2 "	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	62.68
SB-384NL	3"	2"	2½"	CL-26	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32
SB-385NL	3"	2"	2 "	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	62.68
SB-386NL	3"	2"	2½"	CL-23	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32
SB-387NL	3"	2"	2¼"	CL-16	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	66.48
SB-388NL	3"	2"	2¼"	CL-17	2-21/32"	2-21/32"	1-½ "	50	66.48

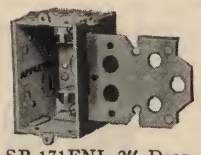


SB-171FVB-2" Deep
SB-173FVB-2½" Deep

FOR FLEXIBLE STEEL CONDUIT AND ARMORED CABLE "VB" BRACKET SWITCH BOXES—NO LATH SUPPORT

Used in Wall Board, Beaver Board, Veneer Board, and Plaster Board Construction

Appleton Cat. No.	Type Box Furnished	Dimensions L.	W.	D.	Type Clamp Furnished	Knockouts All ½" KO's are for ½" Conduit Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-171FVB	171-F	3"	2"	2 "	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	$66.12
SB-173FVB	173-F	3"	2"	2½"	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32



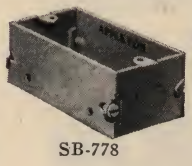
SB-171FNL-2" Deep
SB-173FNL-2½" Deep

WITH MOUNTING BRACKET—LESS LATH SUPPORT

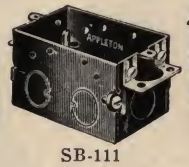
Appleton Cat. No.	Type Box Furnished	Dimensions L.	W.	D.	Type Clamp Furnished	Knockouts All ½" KO's are for ½" Conduit Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-171FNL	171-F	3"	2"	2 "	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	$64.68
SB-173FNL	173-F	3"	2"	2½"	CL-13	2-21/32"	2-21/32"	4-21/32" 1-½ "	50	70.32

FOR ½ INCH RIGID CONDUIT—(HEAVY-WALL)

Both Sides Have Four Holes for 20 Penny Nails in Addition to Regular Nail Holes—Without Leveling Ridges—With Plaster Ears



SB-778



SB-111



SB-222



SB-333

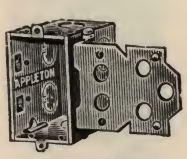
Appleton No.	Dimensions Length	Width	Depth	Supporting Ears	Knockouts in Ends, Sides and Bottom are for ½ or ¾ Inch Conduit as noted Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-778	3¾"	2"	1½"	No	1-½"	None	1-½"	100	$ 58.80
SB-111	3 "	2"	2 "	Yes	1-½"	2-½"	1-½"	50	51.12
SB-222	3 "	2"	2½"	Yes	1-½"	2-½"	1-½"	50	54.96
SB-225	3 "	2"	2½"	Yes	1-¾"	2-¾"	1-½"	50	60.84
SB-333	3 "	2"	2¾"	Yes	1-½"	2-½"	1-½"	50	56.40
SB-333D	3 "	2"	3½"	Yes	1-½"	2-½"	1-½"	50	105.72
SB-335	3 "	2"	2¾"	Yes	1-¾"	2-¾"	1-½"	50	60.84
SB-336	3 "	2"	3½"	Yes	1-¾"	2-¾"	1-½"	50	110.40

SWITCH BOXES



Type "VB"

NO LATH SUPPORT
For ½ Inch Rigid Conduit—(Heavy-Wall)



Type "SB"

"VB" WITH MOUNTING BRACKET

Appleton No.	Type Box Furnished	Dimensions L.	W.	D.	Type Clamp Furnished	Knockouts All ½" KO's are for ½" Conduit Ends	Sides	Bottom	Std. Pkg.	List Price Per 100
SB-111VB	111	3"	2"	2 "	None	1-½"	2-½"	1-½"	50	$60.48
SB-222VB	222	3"	2"	2½"	None	1-½"	2-½"	1-½"	50	60.84
SB-333VB	333	3"	2"	2¾"	None	1-½"	2-½"	1-½"	50	66.72

"SB" WITH MOUNTING BRACKET

SB-111NL	111	3"	2"	2 "	None	1-½"	2-½"	1-½"	50	$57.00
SB-222NL	222	3"	2"	2½"	None	1-½"	2-½"	1-½"	50	60.82
SB-333NL	333	3"	2"	2¾"	None	1-½"	2-½"	1-½"	50	62.16

TYPES OF CLAMPS AS USED IN APPLETON COMBINATION BOXES

For Non-metallic Sheathed Cable and Non-metallic Flexible Tubing, Also for Flexible Steel Conduit and Armored Cable

Illustrated below are the various types of Appleton Cable Clamps. Along with the listing of all boxes having clamps, we specify the number of the clamp furnished. These clamp numbers correspond with those listed below and illustrate more clearly the clamps furnished with each box.



CL-6



CL-9



CL-24



CL-24

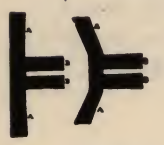


CL-25

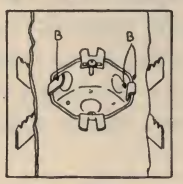


CL-26

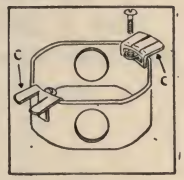
SWITCH BOX OUTLET HOLDITS AND EARS



102

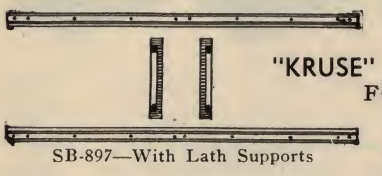


103



104

No.	Carton	List Price Per 100 Sets
102	100 sets	$13.20
103	100 sets	26.40
104	100 sets	7.70



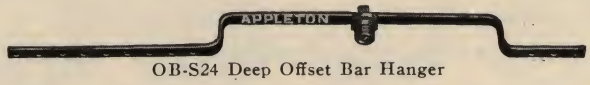
SB-897—With Lath Supports

"KRUSE" SWITCH BOX SUPPORT FOR NEW WORK

No.	Description	Wt. Lbs. Per 100	Standard Package	List Price Per 100
SB-897	Two 16½" Strips and Lath Supports	40	500 Sets	$48.91
SB-897LLS	Two 16½" Strips—No Lath Supports	35	500 Sets	48.61
SB-898	Two 18½" Strips and Lath Supports	50	500 Sets	51.89
SB-898LLS	Two 18½" Strips—No Lath Supports	45	500 Sets	51.58

BAR HANGERS—SET SCREW STUD

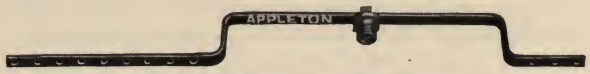
Also Old Work Bar Hanger and Box Cleat



OB-S24 Deep Offset Bar Hanger



OB-BHOW Old Work Bar Hanger



OB-S23 Shallow Offset Bar Hanger



OB-CBH Box Cleat

No.	Description Length	Depth	Style	Stud	Std. Pkg.	List Pr. Per 100
OB-S21	18 "	....	Straight	⅜"	50	$46.68
OB-S22	24 "	....	Straight	⅜"	50	58.20
OB-S23	19½"	15/16"	Shallow Offset	⅜"	50	51.72
OB-S24	19½"	1 9/16"	Deep Offset	⅜"	50	53.16
OB-S25	24 "	15/16"	Shallow Offset	⅜"	50	61.08
OB-S26	24 "	1 9/16"	Deep Offset	⅜"	50	62.88
OB-S27	19½"	⅜"	Extra Shallow Offset	⅜"	50	50.40
OB-BHOW⅜"	12 "	....	Straight For Old Work	⅜"	50	53.88
OB-CBH	21 "	1 9/16"	Box Cleat	...	50	36.00

SUPER-SPEED BAR HANGERS

Complete with ⅜" Fixture Standard and Nails



Two sizes fit any spacing of joists from 14" to 24" centers. Installation is fast—simple—accurate.

Mount between the joists—no need to notch joists, no slides or gadgets to adjust. Nails furnished in position to drive. Nails in loop ends rigidly held in place, will not fall out.

Insert fixture stud up through center knockout in outlet box, placing hooked end over bar hanger, finger-tighten stud. Nail-head in loop at right end of bar should be toward you if you are right handed. Place bar hanger at desired height between joists, allowing for plaster thickness and drive in nails. Make final adjustment of box, then tighten stud with screw driver.

No.	Lgth.	For Use Between Joists Centers	Stud	Std. Pkg.	List Price Per 100
OB-H17	17"	14 to 18 inches	⅜"	25	$63.30
OB-H23	23"	18 to 24 inches	⅜"	25	73.20



T & B WATERTIGHT FLOOR BOXES

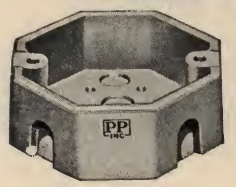
NON-ADJUSTABLE

Cover plate and bell nozzle are smooth polished. Supplied with a flat cover ½-inch, complete with plug. Four holes on sides and two on bottom. Height 3 5/16 inches; diameter of cover plate 3¾ inches.

No.	Description	Std. Pkg.	Wt. Lbs. Each	List Price Each
1700†	2-Wire Box	25	2	$6.00
1701	3-Wire Box	10	2¼	7.50
1702	3-Wire Ground Box	10	2½	7.50
1703	Telephone or Signal Box	25	2	5.00

† Attachment Plug furnished only when specified—extra charge.

PORCELAIN BOXES AND COVERS



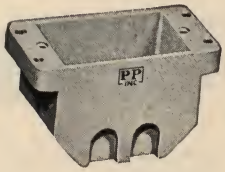
OCTAGONAL OUTLET BOXES

No.	Description	Size	List Price Per 100
8313	Unglazed	3¼"	$20.50
8314	Unglazed	4"	27.30



"READY" OUTLET BOXES

No.	Description	List Price Per 100
8318	Unglazed	$20.50



SWITCH BOXES

8310—Unglazed $20.50



PENDANT AND BLANK OUTLET BOX COVERS

8328—Glazed $9.20
8338—Glazed 10.55
Fits No. 8318 "Ready" Outlet Box.



SWITCH COVERS

8378—Glazed $10.80
Fits No. 8310 Switch Box.



OCTAGONAL OUTLET BOX COVERS—GLAZED

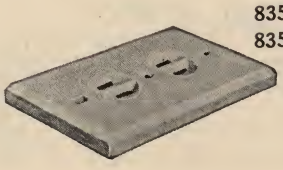
No.	Description	Size	List Price Per 100
8343	Mounting Cover	3¼"	$10.80
8344	Mounting Cover	4"	15.60
8323	Blank Cover	3¼"	9.20
8324	Blank Cover	4"	14.00





FLUSH DUPLEX RECEPTACLES—GLAZED

8353—Duplex Receptacle. 3¼" $26.00
8354—Duplex Receptacle. 4" 34.00



8358—Duplex Receptacle.... 26.00

BAKELITE BOXES AND COVERS

BAKELITE outlet boxes and covers are not affected by acid, alkali or salt solutions, nor sulphur or ammonia fumes. They are, therefore, especially recommended for use in chemical or industrial plants, cattle barns, farm wiring or any place where extreme corrosive conditions are encountered.

Designed for use with non-metallic sheathed or CNX cable. Clamps within the boxes hold the cables securely in place without injury to the outer braid. Requires no ground. No. 3050 has one ½" K.O. in bottom while the No. 4050 has five ½" K.O.'s, both furnished with supporting hole and fixture stud bolt hole knockouts. Depth 1½". For 14-2, 14-3, 12-2, loom wire and 14-2, 14-3, 12-2, 12-3 CNX cable.



No.	Size	Std. Pkg.	List Price Per 100
3050	3¼" Box	100	$23.40
4050	4" Box	100	29.80
CL-34	Extra Clamps with Screw for above boxes	100	4.00



COMBINATION BLANK OR PENDANT COVER

3051—3¼" Box 100 $11.76
4051—4" Box 100 17.15



SPIDER COVER

1302—3¼" Box 100 $12.10
1402—4" Box 100 17.50



DUPLEX RECEPTACLE COVER

3053—3¼" Box 100 $13.45
4053—4" Box 100 19.05



RECEPTACLE COVER

3054—3¼" Box 100 $13.45
4054—4" Box 100 19.05



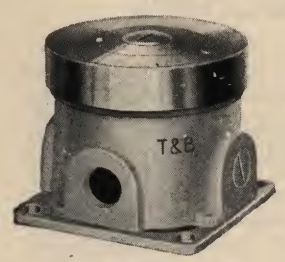
TOGGLE SWITCH COVER

4055—4" Box 100 $17.50



RUBBER PIGTAIL W.P. SOCKET WITH COVER

3058—3¼" Box 100 $43.00
4058—4" Box 100 45.00



No. 1760

ADJUSTABLE WATERTIGHT FLOOR BOXES

Have a ⅝-inch vertical and 10° angular adjustment. The covers are metallically grounded to the box. Has no receptacle, supplied with a flat cover disc drilled and tapped for ½-inch conduit, complete with plug.

Standard conduit drilling is four holes on sides, tapped for ½-inch conduit with two holes plugged. ¾-inch will be supplied, when specified, at no extra charge. Standard package: **$100** list value.

No. 1730 Series—Deep Type

Dimensions: Height, minimum 3⅞ inches; diameter of cover plate 4 inches.

No.	Description	Unit Pkg.	Wt. Lbs. Each	List Price Each
1730†	2-Wire Box	1	4¼	$7.50
1731	3-Wire Box	1	4½	8.00
1732	3-Wire Ground Box	1	4½	8.00
1733	Telephone or Signal Box	1	4	5.50

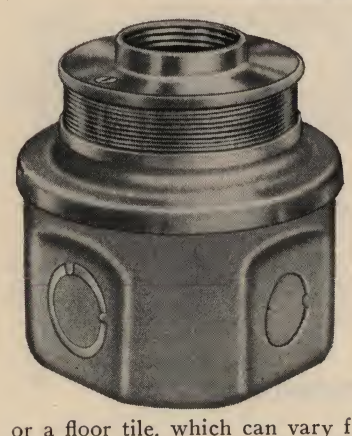
No. 1760 Series—Shallow Type

Dimensions: Height, minimum 3 inches; diameter of cover plate 4 inches.

1760†	2-Wire Box	1	4¼	$10.00
1761	3-Wire Box	1	4½	12.00
1762	3-Wire Ground Box	1	4½	12.00
1763	Telephone or Signal Box	1	4	10.00

† Attachment Plug furnished only when specified—extra charge.

F. A. UNIVERSAL FLOOR BOX



This floor box is designed to be installed in a fire-proof floor construction as follows: (a) The two-stage floor construction first, by laying the main floor slab and second, putting down the finished floor sometime later. The finished floor might be either cement, terrazzo, some kind of tile or a wood floor on sleepers. (b) The one stage monolithic construction of finished floor, upon which later might be laid linoleum or a floor tile, which can vary from ⅛" to ¼" in thickness.

Because of the variable level of the finished floor surface, with a monolithic construction, we find it necessary to have an adjustment of the cover of about ⅛" between the first and final positioning of the finishing cover of our floor box.

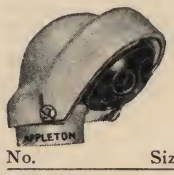
When a cement finished floor is first put down and later either linoleum or thin tile (⅛"—¼") is put on top of this, it will be possible, by carefully breaking the cement all around the adjustable threaded brass ring (not to exceed ¼"), the height of the REVERSIBLE finishing cover, so as to be level with the linoleum or not over ¼" floor tile.

No.	List Price Each	Standard Package Amount	Weight	Types of Receptacles
FBU	$8.00	24	100 lbs.	10 A., 250 V., or 15 A., 125 V., 2P Receptacle for Type FBU; Catalog No. 7331. $0.75 list each 10 A., 250 V., or 15 A., 125 V., 3P Polarized Receptacle for Type FBU; Catalog No. 7214. $2.50 list each

Write for information and prices on other types of F. A. Floor Boxes.

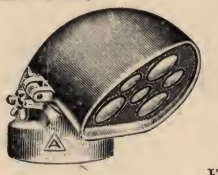
ENTRANCE HEAD AND CAP FITTINGS

For Rigid Conduit (Heavy-Wall)—Vertical or Horizontal Mounting—Threaded



Type "FEBS"—½" size with combination 2, 3 and 4-wire bakelite cover. ¾" to 1¼" sizes with combination 2, 3, 4 and 5-wire wire bakelite cover.

No.	Size	Holes in Insulator	Size of Holes	No. Holes Plugged	Std. Pkg.	Ctn. Qty.	List Price Each
EF-F50	½"	4	4-$\frac{5}{16}$"	2	40	10	$1.00
EF-F75	¾"	5	3-$\frac{13}{32}$"—2-⅜"	2	40	10	1.22
EF-F100	1"	5	3-½"—2-$\frac{13}{32}$"	2	20	5	1.70
EF-F125	1¼"	5	3-⅝"—2-$\frac{13}{32}$"	2	10	1	2.10
		With Combination 4, 5, 6 and 7-Wire Composition Covers					
EF-F125S	1¼"	7	5-$\frac{11}{16}$"—2-$\frac{9}{16}$"	3	10	5	2.10
		With Combination 2, 3, 4, 5 and 6-Wire					
EF-F150	1½"	6	3-$\frac{25}{32}$"—2-$\frac{9}{16}$"—1-⅜"	4	5	1	3.60
EF-F200	2"	6	3-1"—2-¾"—1-$\frac{13}{32}$"	4	5	1	7.34

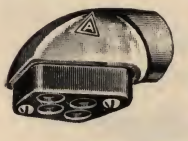


TYPE "FEBR" REVERSIBLE FITTINGS

With combination 2, 3, 4, 5 and 6-wire composition covers. 2½" to 4" sizes inclusive.

No.	Size	Knockouts in Cover	Size of K. O.	Std. Pkg.	Ctn. Qty.	List Price Each
EF-1932	2½"	6	3-1¾"—3-1½"	1	1	$18.36
EF-1933	3 "	6	3-1¾"—3-1½"	1	1	26.70
EF-1934	3½"	6	3-1¾"—3- ½"	1	1	35.60
EF-1935	4 "	6	3-1¾"—3- ½"	1	1	44.42

TYPE "FB"—FITTING—COMBINATION 2, 3 AND 4-WIRE COMPOSITION COVER



No.	Size	Std. Pkg.	Ctn. Qty.	List Price Each
EF-1713	½"	100	10	$1.14
EF-1714	¾"	100	10	1.23
EF-1716	1 "	40	10	1.76

TYPE "FC"—COMBINATION 2, 3 AND 4-WIRE COMPOSITION COVER



EF-1723	½"	200	20	$4.27
EF-1733	¾"	200	20	5.87
EF-1743	1 "	100	10	8.80

TYPE "FCE"—CABLE END FITTING



3-Hole composition covers for armored cable and non-metallic sheathed cable.

No.	Size	Std. Pkg.	Ctn. Qty.	List Price Each
EF-1755	⅜"	200	25	$0.44
EF-1756	½"	200	5	.35



TYPE "FCC" CONDUIT END FITTING

Three-Hole Composition Covers FOR RIGID (HEAVY-WALL

No.	Size	Std. Pkg.	Ctn. Qty.	List Price Each
EF-1756	½"	200	25	$0.35



TYPE "AY"—FITTING WITH TWO THREADED FEMALE HUBS

EF-1950	½"	40	10	$1.23
EF-1951	¾"	40	10	1.55
EF-1952	1 "	20	5	2.00
EF-1953	1¼"	10	5	6.00
EF-1954	1½"	5	1	7.92

TYPE "LAY" FITTING



No.	Size	Std. Pkg.	Ctn. Qty.	List Price Each
EF-1790	½"	40	10	$1.30
EF-1791	¾"	40	10	1.60
EF-1792	1 "	20	5	2.40
EF-1793	1¼"	10	5	4.13
EF-1794	1½"	5	1	5.76
EF-1795	2 "	1	1	7.50

FORM 35 THREADED UNILET BODIES



TYPE A

No.	Size	List Price Each
A351	½	$0.90
A352	¾	1.04
A353	1	1.50
A354	1¼	2.40
A355	1½	3.10
A356	2	6.40
A357	2½	12.70
A358	3	15.10
A359	3½	21.10
A360	4	27.10
A362	5	41.10
A363	6	60.90



TYPE B

No.	Size	List Price Each
B351	½	$0.90
B352	¾	1.04
B353	1	1.50
B354	1¼	2.40
B355	1½	3.10
B356	2	6.40
B357	2½	12.70
B358	3	15.10
B359	3½	21.10
B360	4	27.10



TYPE C

No.	Size	List Price Each
C351	½	$1.14
C352	¾	1.28
C353	1	1.94
C354	1¼	3.20
C355	1½	4.30
C356	2	7.20
C357	2½	15.10
C358	3	19.60
C359	3½	31.60
C360	4	36.10



TYPE E

No.	Size	List Price Each
E351	½	$0.90
E352	¾	1.04
E353	1	1.50
E354	1¼	2.40
E355	1½	3.10
E356	2	6.40
E357	2½	12.70
E358	3	15.10
E359	3½	21.10
E360	4	27.10



TYPE LB

No.	Size	List Price Each
LB351	½	$1.14
LB352	¾	1.28
LB353	1	1.94
LB354	1¼	3.20
LB355	1½	4.30
LB356	2	7.20
LB357	2½	15.10
LB358	3	19.60
LB359	3½	31.60
LB360	4	36.10
LB362	5	54.10
LB363	6	84.10



TYPE LL

No.	Size	List Price Each
LL351	½	$1.14
LL352	¾	1.28
LL353	1	1.94
LL354	1¼	3.20
LL355	1½	4.30
LL356	2	7.20
LL357	2½	15.10
LL358	3	19.60
LL359	3½	31.60
LL360	4	36.10



TYPE LRL

Type "LRL" Unilet body has double opening with blank cover on one side and can be used either as type "LL" or "LR," by changing the cover from one side to the other.

No.	Size	List Price Each
LRL351	½	$1.14
LRL352	¾	1.28
LR353	1	1.94
LRL354	1¼	3.20
LRL355	1½	$4.30
LRL356	2	7.20
LRL357	2½	15.10
LRL358	3	$19.60
LRL359	3½	31.60
LRL360	4	36.10



TYPE LR

No.	Size	List Price Each
LR351	½	$1.14
LR352	¾	1.28
LR353	1	1.94
LR354	1¼	3.20
LR355	1½	4.30
LR356	2	7.20
LR357	2½	15.10
LR358	3	19.60
LR359	3½	31.60
LR360	4	36.10



TYPE T

No.	Size	List Price Each
T351	½	$1.38
T352	¾	1.62
T353	1	2.40
T354	1¼	3.70
T355	1½	5.10
T356	2	7.70
T357	2½	15.10
T358	3	22.50
T359	3½	33.10
T360	4	39.10



TYPE X

No.	Size	List Price Each
X351	½	$1.92
X352	¾	2.30
X353	1	3.20
X354	1¼	4.30
X355	1½	5.30
X356	2	10.50
X357	2½	18.00
X358	3	30.10
X359	3½	39.10
X360	4	48.10

BLANK STEEL COVERS



No.....	35000	35020	35040	35060	35080	36000	36020	36050	36080
Size Ins.	½	¾	1	1¼-1½	2	2½-3	3½-4	5	6
Price Ea.	$0.16	$0.22	$0.50	$0.72	$1.26	$1.68	$1.82	$3.70	$6.00

RECTANGULAR RECEPTACLES

Lamp Receptacles—Two-Piece



35100

Porcelain top, composition base, with shade holder, 600 watt, 600 volt.

No.	Size	List Price Each
35100	½	$1.36
35101	¾	1.50
35102	1	2.10

2-POLE ATTACHMENT PLUG RECEPTACLES

15-Amp., 125-Volt or 10-Amp., 250-Volt



SINGLE, DOUBLE T SLOT

10 A., 250 V. or 15 A., 125 V.

No.	Size	List Price Each
35120	½	$1.82
35121	¾	2.10
35122	1	2.70



DUPLEX, DOUBLE T SLOT

20 A., 250 V.

No.	Size	List Price Each
35125	½	$1.82
35126	¾	2.10
35127	1	2.70

UNILET BODIES — THREADED

"FS" Series—Shallow

For use with rigid conduit (heavy-wall). Take covers and shallow flush rectangular wiring devices, or plug receptacle housings. Furnished without screws for wiring devices. Overall dimensions of body, exclusive of hubs: length $4\frac{9}{16}$"; width $2\frac{13}{16}$"; depth $2\frac{11}{16}$".



7901



7902

Type	No.	Size	List Price Each
FS	7901	½	$1.94
FS	7921	¾	2.30
FS	7941	1	2.60
FSC	7902	½	2.30
FSC	7922	¾	2.70
FSC	7942	1	3.30

UNILET BODIES — THREADED

"FS" Series—Two Gang—Shallow

For use with rigid conduit (heavy-wall). Take covers and shallow flush rectangular wiring devices. Furnished without screws for wiring devices. Overall dimensions of body, exclusive of hubs: width $4\frac{5}{8}$"; height $4\frac{9}{16}$"; depth 2".





No.	Type	Size	List Price Each
6625	FS	½	$3.60
6630	Two-	¾	3.90
6635	Gang	1	4.30
6626	FSC	½	3.90
6631	Two-	¾	4.30
6636	Gang	1	4.70

APPLETON SPECIAL "REA" CONDUIT FITTINGS

FOR RURAL ELECTRIFICATION WIRING (Weathertight)

Designed expressly to meet the needs for inexpensive, well-made Lighting Fixture, Wall Receptacles and Switches (all weathertight) for use in R.E.A. wiring.

For lighting basements, woodsheds, garages, poultry houses, cow-stables, milk houses, shops, pumphouses and numerous other places about the modern, up-to-the-minute farm buildings and yards.

LIGHTWEIGHT LIGHTING FIXTURES

Cadmium Finish



TYPE "RVA"

With Globe, No Guard

Hub at Top Tapped for ½-inch Rigid Conduit (heavy wall).

No.	Size	Watts	List Price Each
CF-REA-1	½-inch	100	**$4.80**

TYPE "ROB"

With Globe, No Guard

With 4-inch Square Plate for 4-inch Square or 3¼ and 4-inch Octagonal Outlet Boxes.

No.	Style	Watts	List Price Each
REA-2	4"-Sq. Plate	100	**$5.40**





TYPE "RBVA"

With Globe, No Guard

With bracket for mounting on 3¼ or 4-inch Octagonal Outlet Boxes. Screw holes for 4-inch Octagonal Box and Fastening Strap for 3¼-inch Octagonal Boxes.

No.	Style	Watts	List Price Each
CF-REA-20	Bracket	100	**$7.00**

STANDARD DOME REFLECTOR COMPLETE WITH HOLDER†

For Use with REA-1 and REA-2

No.	Style	Size	List Price Each
REA121	Std. Dome	100 Watts	**$9.40**





GUARD ONLY

For Use with Types "RVA," "ROB," and "RBVA"

No.	Size	List Price Each
CF-REA-3	100 Watts	**$1.80**

GLOBE ONLY

For Use with Types "RVA," "ROB," and "RBVA"

No.	Size	List Price Each
REA-33	100 Watts	**$1.60**



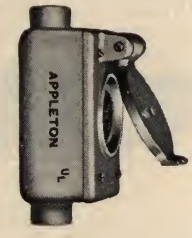
†When reflector is used, reflector holder clamps onto "RVA" or "ROB" Lighting Fixtures and guard cannot be used.



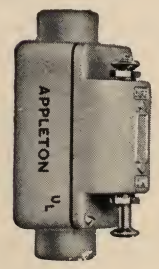
OUTDOOR RECEPTACLE FITTINGS†

15 Amp., 125 Volt or 10 Amp., 250 Volt—Complete with Cap

Type	No.	List Price Each	Style	No.	List Price Each	Type
E	**CF-REA-44**	**$5.80**	2-Wire, 2-Pole	**CF-REA-47**	**$5.90**	**C**
One	**CF-REA-45**	**7.50**	2-Wire, 3-Pole	**CF-REA-48**	**7.60**	Two
½"	**CF-REA-46**	**7.70**	3-Wire, 3-Pole	**CF-REA-49**	**7.80**	½"
Hub						Hubs



†Will take "Standard" Attachment Plug Caps—15 Amp., 125 Volt or 10 Amp., 250 Volt.



OUTDOOR SWITCH FITTINGS

Complete with Switches

Type	No.	List Price Each			No.	List Price Each	Type
E	**CF-REA-10**	**$5.30**	Single Pole	10 Amp., 125 Volt / 5 Amp., 250 Volt	**CF-REA-14**	**$5.50**	**C**
One	**CF-REA-11**	**6.60**	Double Pole	10 Amp., 250 Volt	**CF-REA-15**	**6.80**	Two
½"	**CF-REA-12**	**5.60**	Three-way	10 Amp., 125 Volt / 5 Amp., 250 Volt	**CF-REA-16**	**5.80**	½"
Hub	**CF-REA-13**	**8.50**	Four-Way	10 Amp., 125 Volt / 5 Amp., 250 Volt	**CF-REA-17**	**8.70**	Hubs



COVERS

FOR SINGLE-GANG "FS" AND "FD" SERIES OF THREADED AND NO-THREAD MALLEABLE UNILET BODIES

Furnished with Fastening Screws


7693


7965A


7976


7988


7993


8140


8144


8148

STEEL COVERS

No.	Description	List Price Each
7963	For square handle tumbler and toggle flush switches	$0.46
7965-A	For two or three P. &. S. Despard, Bryant "IL" and Hubbell interchangeable wiring devices (complete with three-opening strap)	.74
7976	For standard 2-wire or 3-wire duplex receptacles	.46

CAST COVERS—WITH GASKET

7988	For round flush receptacles (with spring door)	$3.70
7993	2-wire, 2-pole, with spring door	8.80
7993-A	2-wire, 3-pole, with spring door	10.70
7993-B	3-wire, 3-pole, with spring door	10.70

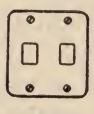
SINGLE-GANG COVERS—CAST—WITH GASKETS

8140	For double push button switches	$5.20
8144	For square handle tumbler and toggle flush switches	5.20
8148	Rocker type for square handle tumbler and toggle flush switches	5.20

FOR TWO-GANG "FS" AND "FD" SERIES OF THREADED AND NO-THREAD MALLEABLE UNILET BODIES

Furnished with Fastening Screws


14090


14065


14066


14058


14076

14090	For square handle tumbler and toggle flush switches	$0.90
14065	For two P. & S. Despard, Bryant "IL" and Hubbell interchangeable wiring device (complete with single-operating strap)	1.50
14066	For four or six P. & S. Despard, Bryant "IL" and Hubbell interchangeable wiring devices (complete with three-opening strap)	1.50
14058	For "standard" duplex flush receptacles	.90
14076	For toggle flush switches and "standard" duplex flush receptacles	1.50

CONVERTIBLE VAPORTIGHT FIXTURES

"V"-51 SERIES FOR USE WITH RIGID CONDUIT (HEAVY-WALL)

100 Watt or 150-200 Watt Units


TYPE JBW


TYPE JB


TYPE VA

JB and JBW Fixtures Designed to Mount on JB and JBD Unilet Bodies.

GS and GSW Fixtures Designed to Mount on GS Unilet Bodies.

OBV and OBVW Fixtures Designed to Mount on Standard 3¼" and 4" Octagonal Outlet Boxes.

Watts	Style Globe & Guard	Hub Size	List Price Each No.	List Price Each No.	List Price Each No.
100	With	½"	VA1050G $17.30	V1050G	VC1050G $17.60
100	With	¾"	VA1075G 17.40	V1075G	VC1075G 17.70
100	Without	½"	VA1050 10.70	V1050	VC1050 11.00
100	Without	¾"	VA1075 11.80	V1075	VC1075 11.10
150-200	With	½"	VA2050G 23.20	V1050G	VC2050G 23.50
150-200	With	¾"	VA2075G 23.30	V1075G	VC2075G 23.60
150-200	Without	½"	VA2050 12.80	V1050	VC2050 13.10
150-200	Without	¾"	VA2075 12.90	V2075	VC2075 13.20

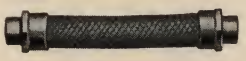
Watts	Style Globe & Guard	List Price No. Each	List Price No.	List Price No. Each	List Price No.
100	With	JB10G $17.70	GS10G	JBW10G $18.90	OBVW10G
100	Without	JB10 11.10	GS10	JBW10 12.30	OBVW10
150-200	With	JB20G 23.60	GS20G	JBW20G 24.80	OBVW20G
150-200	Without	JB20 13.20	GS20	JBW20 14.20	OBVW20

"EX" SERIES FLEXIBLE COUPLINGS

EXPLOSION-PROOF, DUST-TIGHT AND WEATHERPROOF

Class I, Groups C and D; and Classes II and III

TYPE EXJ



Female Nipples at Both Ends

Length Flx. Ttl. —Inches—		Size	Female No. EXJ	List Pr. Ea.	Male No. EXH
4	7	½	14	$14.30	14
4	7	¾	24	17.20	24
6	9	½	16	15.70	16
6	9	¾	26	19.20	26
6	9	1	36	34.50	36
8	11	½	18	17.30	18
8	11	¾	28	21.30	28
8	11¾	1	38	37.60	38
10	13	½	110	18.80	110
10	13	¾	210	23.50	210
10	13¾	1	310	40.50	310
12	15	½	112	20.30	112
12	15	¾	212	25.60	212
12	15¾	1	312	43.60	312
12	16½	1¼	412	64.70	412

TYPE EXH



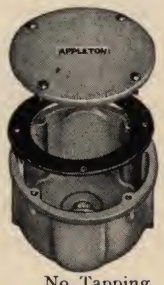
Male Nipples at Both Ends

Length Flx. Ttl. —Inches—		Size	Female No. EXJ	List Pr. Ea.	Male No. EXH
12	16⅞	1½	512	$88.80	512
12	17¼	2	612	114.20	612
15	18	½	115	22.00	115
15	18	¾	215	28.70	215
15	18¾	1	315	48.10	315
15	19½	1¼	415	70.50	415
15	19⅞	1½	515	96.00	515
15	20¼	2	615	123.30	615
18	21	½	118	24.80	118
18	21	¾	218	31.90	218
18	21¾	1	318	52.70	318
18	22½	1¼	418	76.40	418
18	22⅞	1½	518	102.20	518
18	23¼	2	618	132.20	618

Note—Be sure to specify Male or Female in ordering.
Any of the above couplings can be furnished with longer flexible lengths when required.

"JB" VAPORTIGHT UNILETS—WITHOUT LUGS

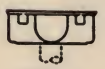
Standard 4½-Inch Diameter—1⅝-Inch Deep—Outside JUNCTION FITTINGS—MALLEABLE IRON BODY CADMIUM FINISH

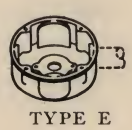


No Tapping with Cover and Gasket

The Type "JB" Vaportight Unilets are furnished without lugs. They are standard 4½" diameter watertight fittings, 1½" deep, in malleable iron or cast brass.

The "JB" Vaportight Unilets can be supplied either without any tapping, or hubs can be tapped according to tapping arrangements shown in illustrations below.

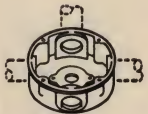

TYPE A


TYPE E


TYPE C


TYPE L


TYPE T


TYPE X


TYPE JB100

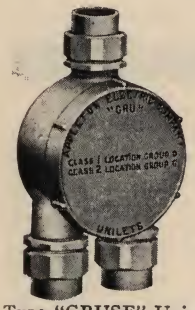
No.	Type	Size Tap	List Pr. Ea.
JBA-1	A	½"	$2.50
JBA-2	A	¾"	2.50
JBE-1	E	½"	2.50
JBE-2	E	¾"	2.50
JBE-3	E	1"	2.60
JBC-1	C	½"	2.60
JBC-2	C	¾"	2.60
JBC-3	C	1"	2.90
JBL-1	L	½"	2.60

No.	Type	Size Tap	List Pr. Ea.
JBL-2	L	¾"	$2.60
JBL-3	L	1"	2.90
JBT-1	T	½"	2.80
JBT-2	T	¾"	2.80
JBT-3	T	1"	3.20
JBX-1	X	½"	2.90
JBX-2	X	¾"	4.30
JBX-3	X	1"	4.50
JB100	No tapping	2"	2.30

"GRU" SERIES UNILETS

EXPLOSION-PROOF AND DUST-TIGHT FITTINGS

Furnished with Blank Cover and Form 2 Threaded Union Hubs as Standard

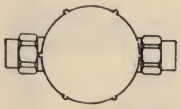


Type "GRUSE" Unilet Explosion-proof and Dust-tight

Unilets of the "GRU" series are used as Junction Boxes for wiring in all hazardous locations. The "GRU" Series Unilet Bodies are furnished with external threads for cover. All metal to metal joints are machined perfectly.

Any of the "GRU" series of Unilets can be furnished with special arrangement of ½" and ¾" hubs in the same body. In ordering such Unilets furnish sketch with order and indicate the hubs and size of conduit each special hub is to accommodate. There is no extra charge for the Unilets when furnished in this way.

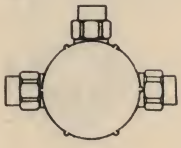
Furnished with Internal Threaded Surface Cover



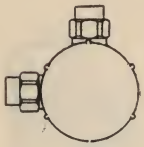
No.	Type	Size	List Price Each
42000	GRUC	½	$7.90
42001		¾	7.90
42002		1	9.30



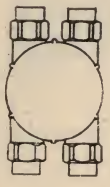
No.	Type	Size	List Price Each
42010	GRUSE	½	9.20
42011		¾	9.20



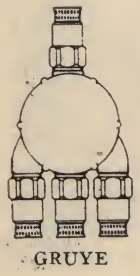
No.	Type	Size	List Price Each
42020	GRUT	½	9.20
42021		¾	9.20
42022		1	11.50



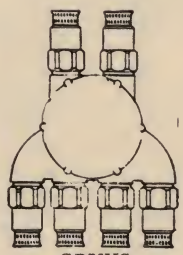
No.	Type	Size	List Price Each
42030	GRUEL	½	7.90
42031		¾	7.90
42032		1	9.30



No.	Type	Size	List Price Each
42095	GRUSS	½	10.50
42096		¾	10.50

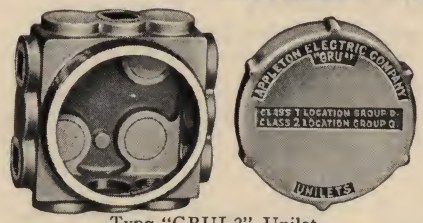

GRUYE

No.	Type	Size	List Price Each
42120	GRUYE	½	$10.50
42121		¾	10.50
42155	GRUYS	½	11.90
42156		¾	11.90


GRUYS

"GRUJ" SERIES

EXPLOSION-PROOF AND DUST-TIGHT UNIVERSAL UNILETS



Type "GRUJ-2" Unilet With Cover Removed Showing Close-up Plugs in Certain Threaded Openings

The "GRUJ" Series like the "GRUO" Series is used as a Junction Box and is termed a Universal Fitting because practically any combination of outlets can be made with the use of close-up plugs, reducers and connectors.

With Threaded Hubs and Close-up Plugs. Furnished with Close-up Plugs in All but Three Hubs. Three Conduit Hubs at All Times Are Left Open.

No.	Type	Side Hubs	Top End Hubs	Bottom End Hubs	Back Hubs	List Price Each
8650	GRUJ-1	Two ¾" in Each Side	One ¾"	Two ¾"	None	$9.10
8651	GRUJ-2	Two ¾" in Each Side	One ¾"	Two ¾"	Four ¾"	10.70
8652	GRUJ-5	Two ¾" in Each Side	One ¾"	Two ¾"	Four 1"	10.70

ACCESSORIES FOR "GRUO" AND "GRUJ" SERIES UNILETS

THREADED CLOSE-UP PLUGS


21


18201

No.	Size	List Price Each
21	½"	$0.24
22	¾"	.30
23	1"	.38
24	1¼"	.46
25	1½"	.62
26	2"	1.14
27	2½"	1.82
28	3"	2.70

THREADED REDUCERS

18201	¾" to ½"	$0.45
18213	1" to ¾"	.62

REMOVABLE THREADED UNIONS

EXPLOSION-PROOF AND DUST-TIGHT

Form 2 for Use with "GRU" and "GRJ" Unilets; Form 3 for Use with Types "GRJSE," "GRJSEA" and "GRJSS" UNILETS

Removable, Explosion-proof threaded Unions, Forms 2 and 3, made according to latest Underwriters' Specifications. These Unions introduce a double safety measure by which the accurately machined metal-to-metal surface is at all times concealed and not liable to installation injury, a condition which would terminate the Explosion-proof effectiveness of the fitting.

The ½" and ¾" sizes of Unions are interchangeable on standard Union Hubs.

FORM 2 For "GRU" and "GRJ" Series Unilets


H

No.	Type	Size	List Price Each
28175	UNR	½	$0.74
28176		¾	.74

TYPE "GRJS" UNILET

EXPLOSION-PROOF AND DUST-TIGHT JUNCTION FITTING—THREADED HUBS AND CLOSE-UP PLUGS



No.	Size Hub	Description	List Price Each
40094	½"	One Hub in each of four sides, and one in bottom, also four Close-up Plugs..	$4.78
40095	¾"	One Hub in each of four sides, and one in bottom, also four Close-up Plugs..	4.78

FLEXIBLE ELBOW AND CONNECTORS

EXPLOSION-PROOF AND DUST-TIGHT

The Type "UNAF" Flexible Elbow is furnished with a female thread at both ends, and is used to join two lengths of conduit. It is Explosion-proof in its construction, and may be used as an elbow within the limits prescribed by the Code which requires the radius of an elbow not to be less than six times the internal diameter of the conduits joined by the elbow.



Type UNAF

No.	Size	Dimensions	Description	List Price Each
8680	½		Female	$5.50
8681	¾	3⅜"x2"	Flexible	5.90
8682	1		Elbow	6.20

"EYS" SERIES SEALING UNILETS

EXPLOSION-PROOF

For Sealing Vertical Runs of Conduit Only

Sealing Unilets with Pipe Plugs*



Type EYSF

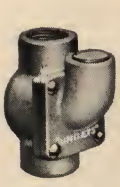
No.	Size	Style	Sealing Cement Required	List Price Each
38670	½	Female	2 ozs.	$1.94
38671	¾	Hub	3 ozs.	2.40
38672	1	Top	4 ozs.	3.20
38673	1¼	and	8 ozs.	3.90
38674	1½	Bottom	12 ozs.	5.90
38675	2		18 ozs.	7.70
38676	2½		30 ozs.	12.00
38677	3		90 ozs.	15.10

"ESU" SERIES SEALING UNILETS

EXPLOSION-PROOF

For Sealing Horizontal and Vertical Runs of Conduit

Sealing Unilets—Complete*



Type ESUF

18670	½	Female	3 ozs.	$3.50
18671	¾	Both	4 ozs.	4.40
18672	1	Ends	5 ozs.	5.60
18673	1¼		8 ozs.	7.10
18674	1½		18 ozs.	10.50
18675	2		24 ozs.	13.90
18676	2½		30 ozs.	22.30
18677	3		46 ozs.	32.10

"APELCO" SEALING CEMENT AND FIBER FILLER*

"Apelco" Sealing Cement is a specially prepared compound approved for the sealing of all Appleton Sealing Unilets. The use of cement in the fittings should be liberal and in no case should the depth of sealing be less than ⅝". Suggested quantities of cement required are shown opposite listing of each size of fitting.

The use of asbestos fibre is recommended as a filler between wires and lower neck of Sealing Unilets so that cement will not run into conduit system. A one ounce can of fiber filler is sufficient to pack approximately 6 small size sealing fittings on vertical work and half that amount on horizontal runs.

Description	Package Size	No.	List Price Each
	4 oz.	8664	$0.90
"APELCO"	8 oz.	8665	1.20
SEALING CEMENT	1 lb.	8666	1.94
	10 lb.	8667	13.50
ASBESTOS	1 oz.	18690	1.50
FIBER FILLER	4 oz.	18691	5.10
	1 lb.	18692	14.40

Cadmium Finish

*All Sealing Unilets of the "ESU" Series must be filled with "Apelco" Sealing Cement in order to comply with requirements of Underwriters' Laboratories.

CONDUIT ELLS

EXPLOSION-PROOF AND DUST-TIGHT



18265



18270



19490



18290



17490

No.	Type	Style	Size	Dimensions A	Std. Pkg.	List Price Each
18265			½	1½"	200	$1.66
18266		Male	¾	1 11/16"	100	1.92
18267			1	1⅞"	50	2.30
18268			1¼	2⅛"	25	2.80
18270			½	1½"	200	.74
18271	EL	Female	¾	1 11/16"	100	1.04
18272	90°		1	1 13/16"	50	1.36
18273	Short		1¼	2 1/16"	25	2.30
19490		Male	½	1½"	200	1.66
19491		and	¾	1 11/16"	100	1.92
19492		Female	1	1 13/16"	50	2.30
19493			1¼	2 1/16"	25	2.80
18290		Female	½	1"	100	.64
17490			½	1¾"	200	.96
17491	EL	Male	¾	2¼"	100	1.36
17492	90°	and	1	2⅝"	50	1.94
17493	Long	Female	1¼	3 5/16"	25	6.00
17494			1½	3½"	10	6.80
17494-A			2	4"	10	8.30

UNION CONNECTORS

EXPLOSION-PROOF AND DUST-TIGHT

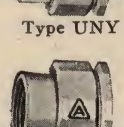
Type UNY-Short for Connecting Conduit to a Unilet



Type UNY

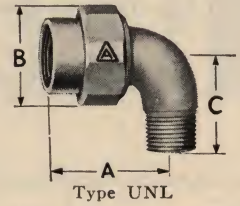
No.	Style	Size	Lgth.	Diam.	List Price Each
UNY84		½	2⅛	1⅞	$1.50
UNY85-R	Male	¾-½*	2⅛	1⅞	2.20
UNY85		¾	2⅛	1⅞	2.20

Type UNF-Short for Connecting Conduit to Conduit



Type UNF

UNF84		½	1 11/16	1⅞	$1.36
UNF85-R	Female	¾-½‡	1 11/16	1⅞	1.94
UNF85		¾	1 11/16	1⅞	1.94



Type UNL

Type UNL—For Connecting Conduit to a Unilet

No.	Type	Size	Dimensions A	B	C	List Price Each
UNL84	UNL	½ to ½*	2 11/16	1⅞	1 13/16	$3.90
UNL85-R	90°	½ to ¾*	2 11/16	1⅞	1 9/16	3.90
UNL86-R	Angle	¾ to ½*	2⅛	1⅞	1 13/16	3.90
UNL86	Unions	¾ to ¾*	2⅛	1⅞	1 9/16	3.90

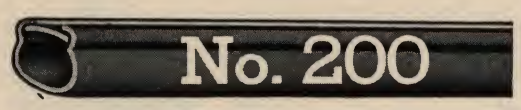
Cadmium Finish.

*Male end given first and is threaded to fit in hubs of "GRUO" and "GRUJ" Series Unilets.

‡End at right in illustration is for ¾" Conduit.

WIREMOLD RACEWAYS

Regardless of the type of installation you are planning . . . in factory, office, school, hospital, store or home . . . plan WIREMOLD and assure your customer of **adequate wiring.** Complete and interconnectable sizes of raceways will meet the diversified requirements of any job, large or small, simple or complicated . . . a minimum number of well-designed fittings means fast, easy installation.



SUGGESTED USES	Wire Size AWG	Wire Cap Type T or R4	Wire Cap Type T or RU	List Price per 100 ft.
For branch circuits . . . extension from existing outlets . . . or to provide switches or additional outlets.	14	3	3	
	12	2	3	

No. 200—Wgt. 1000 ft., 150 lbs. (5 ft. lgths.) 100 ft. to ctn. **$13.40**



For branch circuits . . . extension from existing outlets . . . or to provide switches or additional outlets.	14	4	6*	
	12	3	6	
	10	2	4	
	8	..	2	

No. 500—Wgt. 1000 ft., 320 lbs. (10 ft. lgths.) 100 ft. to ctn. **$15.70**
*Compares with ¾" conduit.



For branch circuits . . . extension from existing outlets . . . or to provide switches or additional outlets.	14	5	8*	
	12	4	8	
	10	3	6	
	8	2	3	

No. 700—Wgt. 1000 ft., 360 lbs. (10 ft. lgths.) 100 ft. to ctn. **$17.80**
*Compares with 1" conduit.



As a branch circuit feeder direct from panel box.	14	10	10*	
	12	10	10	
	10	6	8	
	8	5	8	
	6	4	5	

No. 1000—Wgt. 100 ft., 64 lbs. (10 ft. lgths.) 100 ft. to ctn. **$40.80**
*Compares with 1½" conduit.



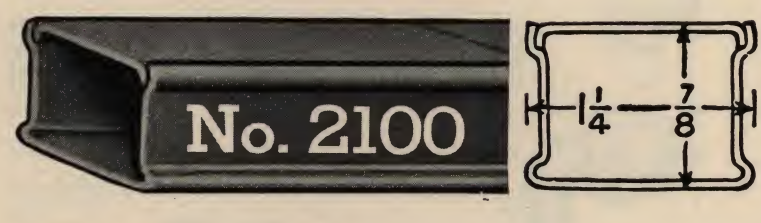
An over-floor system for light and power and telephone circuits to locations away from walls such as desks, machines, etc.	14	4	8	
	12	4	6	
	10	..	4	
	8	..	4	

No. 1500—Wgt. 100 ft., 50 lbs. (10 ft. lgths.) 100 ft. to ctn. **$37.80**



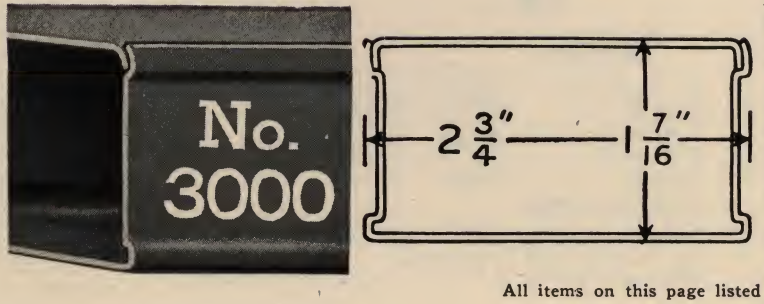
SUGGESTED USES	Wire Size AWG	Type R or RH With Dev.	Type R or RH W'out Dev.	Type T Or R4 With Dev.	Type T Or R4 W'out Dev.	List Price Per 100 ft.
As a plug-in-anywhere wiring system for outlet convenience in factories, hotels, offices, apartments, homes, stores, etc. (Available wired or unwired.)	14	2	3	2	3	
	12	2	3	2	3	

No. 1900B—Channel wgt. 100 ft., 19 lbs. (5 ft. lgths.) 100 ft. to ctn. **$11.70**
No. 1900C—Cover wgt. 100 ft., 12 lbs. (5 ft. lgths.) 100 ft. to ctn. **8.70**



As a plug-in-anywhere wiring system . . . or a distribution system for lighting fixtures. (Larger capacity than 1900. Furnished unwired.)	14	6	10	10	10
	12	6	10	10	10
	10	..	10	8	10
	8	..	6	6	8
	6	..	4	..	5

No. 2100B—Channel wgt. 100 ft., 41 lbs. (5 ft. lgths.) 100 ft. to ctn. **$22.40**
No. 2100C—Cover wgt. 100 ft., 19 lbs. (5 ft. lgths.) 100 ft. to ctn. **16.00**



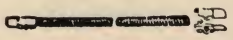
As a branch circuit feeder system direct from panel box to machine tools, lighting fixtures, portable power tools, etc. (Complete line of cover fittings available for all standard devices, rated up to 20 amperes, 250 volts, 4 wire.)	14	10	10	10	10
	12	10	10	10	10
	10	10	10	10	10
	8	8	10	10	10
	6	6	8	8	8

No. 3000B—Channel wgt. 80 ft., 64 lbs. (8 ft. lgths.) 80 ft. to ctn. **$43.70**
No. 3000C—Cover wgt. 80 ft., 32 lbs. (8 ft. lgths.) 80 ft. to ctn. **22.40**

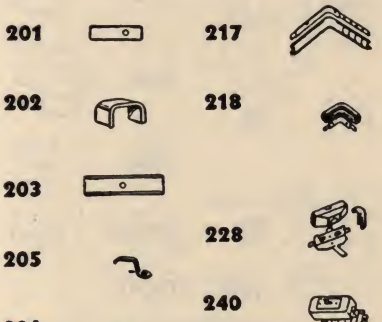
All items on this page listed by Underwriters', Inc.

WIREMOLD FITTINGS

No. 200



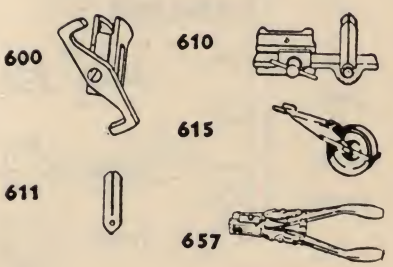
200F



No. 500



No. 600 ACCESSORIES

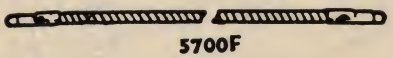


No.	Fitting	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Per 100
200F	Flexible Section 18″ Long	1	10	3½	$206.00
201	Coupling	10	100	½	2.40
202	Bushing	50	200	½	2.70
203	Supporting Clip	50	200	½	3.60
205	One Hole Strap	50	200	1	2.00
206	Connection Cover	50	200	1	2.20
211	90° Flat Elbow	5	50	2¼	27.00
211LH	Internal Twisted Elbow (For 90° Twist with 90° Turn) ...	5	20	1½	50.30
211RH	Internal Twisted Elbow (For 90° Twist with 90° Turn) ...	5	20	1½	50.30
214	Pull Box	5	20	1½	28.50
217	Adjustable Internal Elbow (1 scored leg)	5	50	5½	34.80
218	External Elbow	5	50	2¼	30.30
228	Adjustable Junction Box	5	20	2⅛	62.90
240	Single Pole Switch with Box, 10A125V, 5A250V	1	40	11½	175.70
242	Utility Box	1	20	3¼	86.00
243	Duplex Receptacle, 15A125V, 10A250V	1	40	9	128.80
251	Extension Adapter	1	20	5½	95.20
289	Reducing Connector (From 500 Twistout to 200 Wiremold) .	5	20	1	25.00
289A	Adapter	10	40	½	3.60
200-19	Take-off Kit	1	5	5	242.00
502	Bushing	50	200	½	3.00
504	One or Two Hole Strap	50	500	9	2.20
506	Connection Cover	50	200	1¾	2.20
511	90° Flat Elbow	5	100	14½	24.50
512	45° Flat Elbow	5	20	1½	33.80
515	Tee	5	50	8¼	43.80
517	Adjustable Internal Elbow (1 scored leg)	5	100	19	32.60
518	Adjustable External Elbow (1 scored leg)	5	100	14	26.50
519	Corner Box	5	20	4¼	74.70
526	Keyless Receptacle, 600W250V.	1	40	15	110.80
527	Plug Receptacle, 15A125V, 10A250V	5	40	13½	150.30
588	Open Work Coupling	5	20	3¼	58.00
599	Connector (For Metal Moulding Fittings)	5	20	1	6.70
600	Bender (For Nos. 200-500-700)	—	1	2½	ea. 6.70
610	Mitre Box	—	1	3¾	ea. 11.00
611	Mitre Box Guide Fingers	2	8	½	92.00
615	Wire Pulley	—	1	¼	ea. 2.00
657	Canopy Cutter	—	1	4	ea. 40.00
WE	Wiremold Enamel, 1 pt. can ...	1	5	6¼	137.20
5700F	Flexible Section 18″ Long	1	10	5¾	218.00
5701	Coupling	50	200	3¾	3.00
702	Bushing	50	200	¾	3.90
5703	Supporting Clip	50	500	12¾	3.90
704	One or Two Hole Strap.....	50	200	6¼	3.90
706	Connection Cover	50	200	2	2.40
5708	Fixture Hook	5	20	1½	34.40
5709	Ground Clamp	5	20	3⅝	16.00
711	90° Flat Elbow	5	100	16½	27.50
5711LH	Internal Twisted Elbow (For 90° Twist with 90° Turn) ...	5	50	9½	60.30
5711RH	Internal Twisted Elbow (For 90° Twist with 90° Turn) ...	5	50	9½	60.30
712	45° Flat Elbow	5	20	1¾	34.10
715	Tee	5	50	9½	46.80
717	Adjustable Internal Elbow (1 scored leg)	5	100	21	34.40
5717A	Internal Pull Elbow	1	10	4¼	92.30
718	Adjustable External Elbow (1 scored leg)	5	100	16	28.10
5719	Corner Box	5	20	8¼	92.50
5719A	Corner Box	5	20	5½	73.70
5720	Narrow Outlet Box, ⅛″ Male Nipple	1	10	2½	88.00
5720A★	Narrow Outlet Box	5	20	4¾	101.40
5720B	Narrow Outlet Box, ⅜″ Male Nipple	5	50	10	88.00
5721	Utility Box	5	40	13¼	70.30
5725	Receptacle Base, 660W250V ...	5	20	8½	147.60
5726	Keyless Receptacle 660W250V .	5	20	8½	110.80
5727	Plug Receptacle, 15A125V, 10A250V	5	40	16	150.30
5727G	Receptacle, 2-Wire, 3-Pole with Ground, 15A125V, 10A250V	1	10	5¼	332.00
5727P	Receptacle, 3-Wire, 3-Pole, without Ground, 15A125V, 10A250V	1	10	5½	332.00
5727R	Radio Receptacle, 15A125V, 10A250V	1	10	4½	270.00
5728	Utility Box	1	20	8	80.00
5728B	Single Pole Switch with Box, 10A125V, 5A250V	1	10	4⅜	177.00
5730	Connector Block, 660W250V..	5	20	1	36.90
5730A	Connector Block, 660W250V..	2	8	½	73.70
5731	Blank Cover	5	50	3¾	21.70
5739	Fixture Box	5	40	43½	123.00
5739A	Extension Box	5	40	41½	141.00
5740	Single Pole Switch with Box, 10A125V, 5A250V	1	40	21	189.40

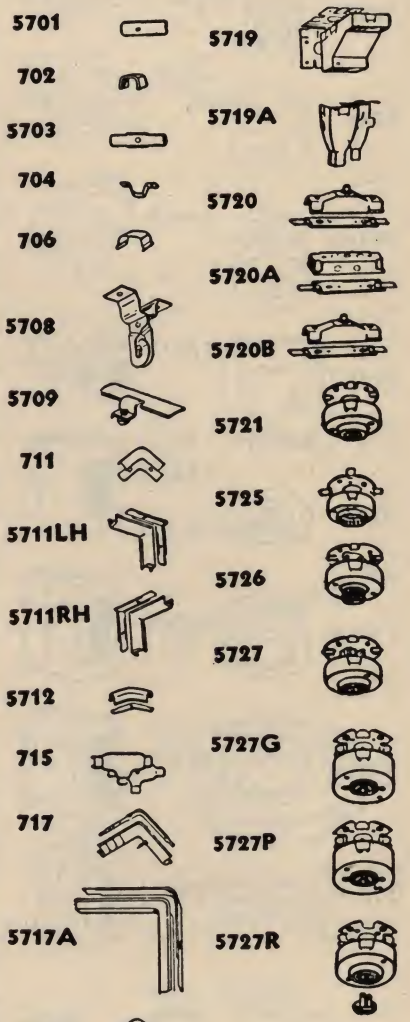
All items on this page except ★ listed by Underwriters' Laboratories, Inc.

No. 5700 and 700

Fittings having catalog numbers beginning with 57 are for use with 500 and 700 WIREMOLD.



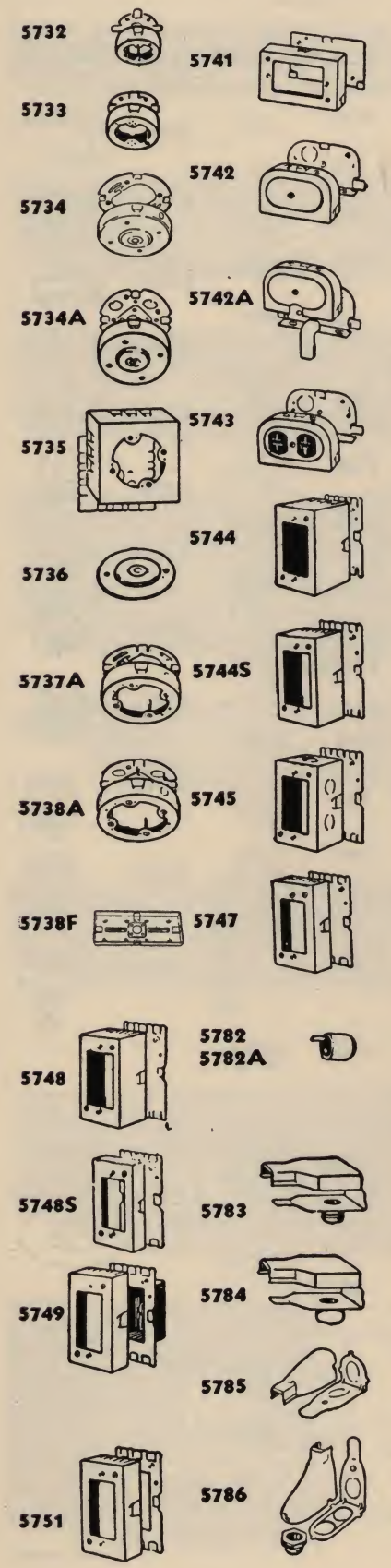
5700F



(Continued)

WIREMOLD FITTINGS

No. 5700 and 700 (continued)

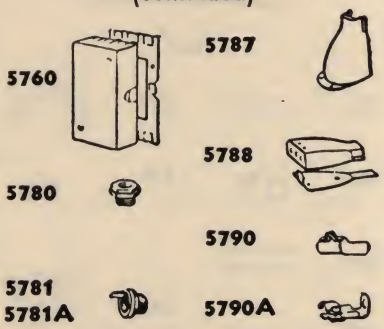


No.	Fitting	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Per 100
5732	Outlet Box	5	20	3½	$73.70
5733	Outlet Box	5	20	6	83.30
5734	Blank Extension Box	5	20	13⅛	120.00
5734A	Utility Box	5	20	13½	126.30
5735	Distribution Box	1	20	17½	163.50
5736	Blank Cover	5	100	19½	33.80
5737A	Extension Box	5	60	44½	124.30
5738A	Fixture Box	5	60	49¾	108.00
5738F	Grounding Box for Fluorescent Fixtures	5	20	13	84.70
5741	Switch and Receptacle Box	1	20	12¼	114.40
5742	Junction Box	1	20	8	104.80
5742A	Adjustable Junction Box	5	20	8¼	145.00
5743	Duplex Receptacle and Box, 15A125V, 10A250V	1	40	22	148.60
5744	Extra Deep Switch and Receptacle Box, 1-gang	1	20	19½	179.50
5744-2	Extra Deep Switch and Receptacle Box, 2-gang	1	10	12½	304.00
5744-3	Extra Deep Switch and Receptacle Box, 3-gang	1	10	15¾	359.70
5744S★	Switch and Receptacle Box, 1-gang	1	20	16	150.90
5744S-2★	Switch and Receptacle Box, 2-gang	1	10	11	255.00
*5744S-3★	Switch and Receptacle Box, 3-gang	1	10	12	302.40
5745★	Combination Switch and Receptacle Box	1	40	27	119.00
5747	Shallow Switch and Receptacle Box	1	40	23	95.20
5747-2	Shallow Switch and Receptacle Box	1	10	8½	234.90
5747-3	Shallow Switch and Receptacle Box	1	10	10¼	280.00
5748	Switch and Receptacle Box	1	40	27	106.00
5748-2	Switch and Receptacle Box	1	20	20	242.00
5748-3	Switch and Receptacle Box	1	10	12¼	304.50
5748S	Shallow Receptacle Box	1	40	19½	92.20
5749	Switch and Receptacle Box	1	10	5½	194.00
5751	Flush Type Extension Adapter 1-gang	1	40	17	95.20
5752	Flush Type Extension Adapter 2-gang	1	10	6	265.00
5753	Flush Type Extension Adapter 3-gang	1	10	7½	318.00
5760	Blank Extension Box	1	10	5	123.20
5780★	Special Nipple	5	20	1	26.00
5781	Box Connector, ½" Male	5	100	5½	36.50
5781A	Box Connector, ¾" Male	5	20	2⅛	59.60
5782	Conduit Connector, ½" Female	5	50	4½	41.80
5782A	Conduit Connector, ¾" Female	5	20	2¾	64.60
5783	Elbow Box Connector, ½" Male	5	20	2½	67.10
5784	Elbow Conduit Coupling, ½" Female	1	10	2	67.10
5785	Combination Connector	5	50	7⅛	36.50
5786	Adjustable Offset Connector	5	20	5½	96.50
5787	Kick Plate	1	10	3¾	70.40
5788	Open Work Coupling	5	20	4¾	65.30
5790★	Armored Cable Connector	5	50	2	20.20
5790A	Armored Cable Connector	5	50	3	18.50
1000F	Flexible Section 18" Long	1	10	11¼	248.20
1001	Coupling	10	100	6¾	9.20
1002	Bushing	10	40	1	7.60
1003	Supporting Clip	10	100	4¼	7.60
1004	Two Hole Strap	10	100	5	14.30
1005	One Hole Strap	10	100	3½	14.30
1009	Ground Clamp	1	4	½	31.90
1011	90° Flat Elbow	1	10	7	78.00
1011LH	Internal Twisted Elbow (For 90° Twist with 90° Turn)	1	4	2½	140.00
1011RH	Internal Twisted Elbow (For 90° Twist with 90° Turn)	1	4	2½	140.00
1013	Adjustable Flat Elbow (56° to 128°)	1	4	2½	96.40
1017	Internal Elbow	1	6	5	110.80
1018	External Elbow	1	4	1	71.30
1028	Utility Box	1	10	9¼	140.80
1035	Distribution Box	1	6	13	228.80
1039	Fixture Box	1	10	13	187.00
1048	Switch and Receptacle Box	1	10	9	212.00
1082	Conduit Connector, 1" Female	1	10	4	115.00
1085	Combination Connector	1	10	4⅛	59.50
1086	Adjustable Offset Connector	1	4	3	145.00
1087	Kick Plate	1	10	5½	77.00
1089	Reducing Connector (From 1000 Twistout to 500 or 700 Wiremold)	5	20	2¾	27.70
1500WC	Wire Clip	20	200	½	1.40
1502	Bushing	10	40	½	8.00
1504	Two-Hole Strap	10	50	4¼	13.20
1511	90° Flat Elbow	1	20	4	36.90
1542A	Narrow Junction Box (½" Female Bushing)	5	20	5	62.90
1542B	Base for Floor Receptacle (Having ¾" Stem)	1	10	9½	468.00
1542D	Junction Box, Deep Type	5	20	7½	73.70

*Furnished up to 12-gang on special order.

All items on this page except ★ are listed by Underwriters' Laboratories, Inc.

No. 5700 and 700 (continued)



No. 1000



No. 1500 PANCAKE

WIREMOLD FITTINGS

No. 1500 PANCAKE

(continued)

1517



1542E



1517A



1542G



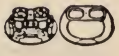
1518



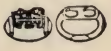
1524



1543



1543A



1524A



1585

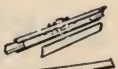


No. 1900 PLUGMOLD

1901



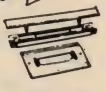
1914A



1902



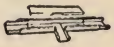
1914C



1910A



1915



1917



1910B



1918



1911

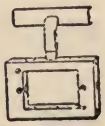


1927



1927V

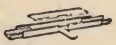
1974



1930



1989



1942

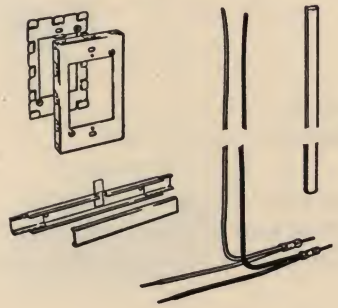


1989E



No. 200-19 TAKE-OFF KIT

(Wall outlet to No. 1900)



No.	Fitting	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Per 100
1517	Internal Elbow	5	20	4¾	$36.90
1517A	Adapter Fitting (With Fibre Bushing)	5	20	4	51.80
1518	External Elbow	1	20	5	44.00
1524★	Telephone Outlet	1	20	11½	180.00
1524A★	Narrow Telephone Outlet	1	20	8	147.60
1542E★	Junction Box, Deep Type (⅜" Bushing and ⅜" Connector)	1	20	7½	92.30
1542G★	Narrow Junction Box (½" Female Bushing and ⅜" Connector)	5	20	5	104.00
1543	Duplex Receptacle, 15A125V, 10A250V	1	20	14	184.50
1543A	Polarized Duplex Receptacle, 3 Wire, 15A125V, 10A250V	1	10	7½	516.00
1585	Combination Connector	5	20	5	44.00
1901	Coupling	5	50	1	6.10
1902	Fibre Bushing	50	200	½	3.30
1910A	End Fitting	5	20	3½	29.40
1910B	Blank End Fitting	5	20	¾	13.30
1911	90° Flat Elbow	1	10	3	49.30
1914A	Connector Fitting	2	20	5¾	49.30
1914C	Wall Box Connector	2	8	3¼	78.00
1915	Tee	3	30	10	51.90
1917	Internal Elbow	1	20	23	56.70
1918	External Elbow	1	10	3	51.90
1927	Receptacle (Brown) 15A125V	5	50	2¾	62.20
1927V	Receptacle (Ivory) 15A125V	5	50	2¾	77.10
1930	Connector Block	5	20	1¼	41.60
1942	Junction Block	1	20	3¼	63.80
1974	Take-off Connector	1	4	½	134.20
1989	Reducing Connector (1900 to 500)	1	5	2	70.10
1989A	Reducing Connector (1900 to 500)	1	5	2	70.10
1989E	Reducing Connector (End of 1900 to 200)	5	20	¾	24.20
200-19★	Take-off Kit*	1	5	5	242.00
19306	3-Ft. Length, 6 Outlets, 6" on Centers	1	10	16	543.00
19606	6-Ft. Length, 12 Outlets, 6" on Centers	1	10	26	1035.10
19618	6-Ft. Length, 4 Outlets, 18" on Centers	1	10	27	577.50
1903T	Mounting Clip	10	100	1	5.70
1917T	Internal Elbow	5	20	¾	20.30
19C03	13-inch length with 6 brown receptacles and one 1930 connector block			1½	5.40
19C03V	Same as 19C03 except receptacles are ivory			1½	6.00
19C12	25-foot coil with 25 brown receptacles wired 12" on centers. 1900C cover sections furnished			6	24.90
19C12V	Same as 19C12 except receptacles are ivory			6	27.70
19C18	50-foot coil with 33 brown receptacles wired 18" on centers. 1900C cover sections furnished			10	38.20
19C18V	Same as 19C18 except receptacles are ivory			10	42.00
19C24	50-foot coil with 25 brown receptacles wired 24" on centers. 1900C cover sections furnished			10	30.60
19C24V	Same as 19C24 except receptacles are ivory			10	33.60
19C36	50-foot coil with 16 brown receptacles wired 36" on centers. 1900C cover sections furnished			10	23.90
19C36V	Same as 19C36 except receptacles are ivory			10	25.60
2100WC	Wire Clip	20	200	2	3.60
2101	Coupling	5	20	2	8.00
2101A	Rigid Coupling	5	20	1	16.70
2106★	Cover Clip	20	100	¼	4.00
2108A	Hanger Clamp	5	20	2	40.00
2108D	Fixture Hook	5	20	2	30.30
2110A	End Connector (½" Locknut)	5	20	3	34.40
2110B	Blank End Fitting	5	20	2	17.50
2126	Keyless Socket, 660W, 250V	1	20	7	99.90
2127	Plug Receptacle (Brown) 15A125V, 10A250V	1	40	4	70.40
2127V	Plug Receptacle (Ivory) 15A125V, 10A250V	1	40	4	95.60
2127D	Lumiline Single Rec. 660W, 250V	2	20	1	73.70
2127H	Midget Twist-Lock Receptacle, 2-Wire (Brown) 15A125V, 10A250V	1	20	4	185.90
2127P	3-Wire Polarized Receptacle (Brown) 15A125V, 10R250V	1	20	3	132.40
2127S	T-Slot Receptacle (Brown) 15A125V, 10A250V	1	40	4¾	78.00

*Consists of one No. 251 Extension Adapter, a 15" length of No 200 Wiremold, a No. 1989A Reducing Connector, and Wiring Harness of No. 12 Type R Conductors. Everything necessary to extend from existing wall outlet to No. 1900!

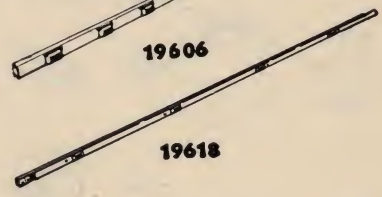
All items on this page except ★ are listed by Underwriters' Laboratories, Inc. Snapicoil consists of receptacles listed by Underwriters' Laboratories, Inc. and wire labeled by Underwriters' Laboratories, Inc.

No. 1900T PLUGTRIM

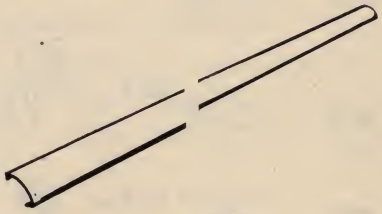
19306



19606



19618



1903T



1917T

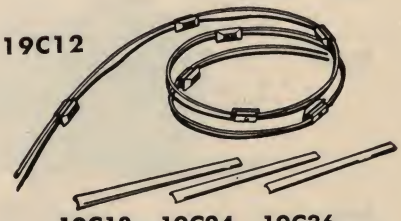


SNAPICOIL

19C03



19C12



19C18 19C24 19C36

No. 2100

2100WC



2126



2101



2101A



2127



2106



2127D

2108A

2108D

2127H

2127P

2110A

2127S

2110B

(Continued)

WIREMOLD FITTINGS

No. 2100

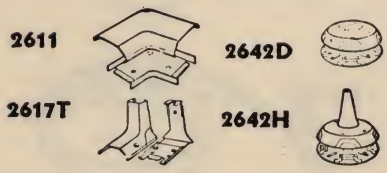


COVER

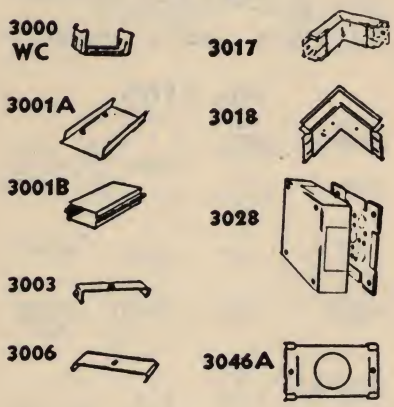


For Lumiline

No. 2600 PANCAKE



No. 3000

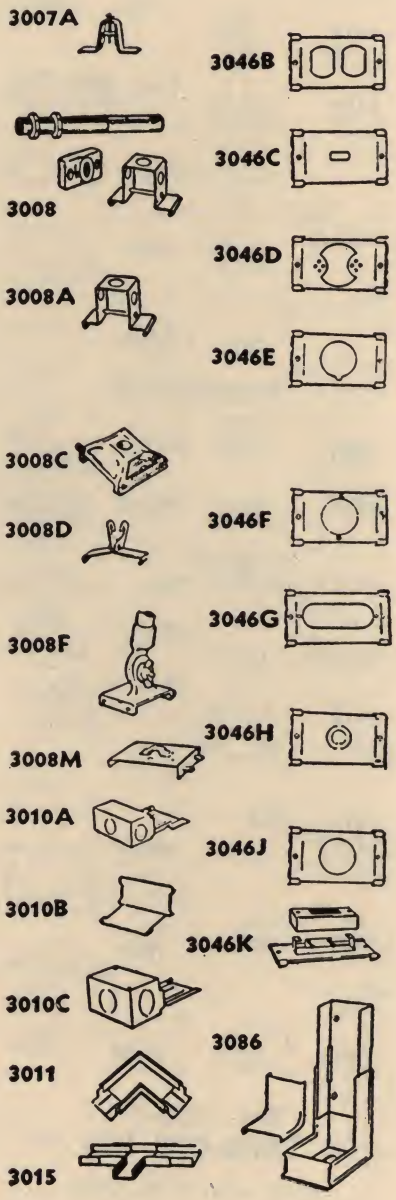


No.	Fitting	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Per 100
2111	90° Flat Elbow	5	20	5	$51.80
2115	Tee	1	4	1¾	129.20
2117	Internal Elbow With Cover	5	20	5	53.60
2118	External Elbow With Cover	5	20	5	59.50
2121★	Telephone Outlet	5	20	1½	31.00
2129	Adapter (Conduit Type)	1	10	¾	32.00
2140	Single Pole Switch with Box, 10A125V, 5A250V	1	20	6	161.00
2173	Offset Connector (2100 to 1500)	1	10	1¼	44.30
2174	Takeoff Connector (2100 to 500 or 700)	1	10	2	58.80
2182A	End Fitting (¾" Female Bushing)	5	20	3½	92.30
21211	For 12" Lumiline Lamp	1	10	2¼	20.00
21212	For 18" Lumiline Lamp	1	10	3½	31.90
2611★	90° Flat Elbow	1	5	1¾	167.80
2617T★	Telephone Elbow	2	20	7	139.20
2642D★	Junction Box	1	10	5½	147.60
2642H★	Junction Box (With 3" Rubber Stem)	1	8	5¼	218.00
*3000WC	Wire Clip	1	40	2	5.00
*3001A	Rigid Inside Coupling	2	10	4	20.00
3001B	Rigid Outside Coupling	2	8	9	83.80
3003	Supporting Clip	5	50	2½	16.70
3006	Cover Clip	10	40	1½	3.30
*3007A	Mounting Strap for Wiring Devices	2	80	8	8.50
3008	Hanger Assembly (With ⅜" Pipe Nipple)	1	10	8	211.40
3008A	Hanger Clamp	1	10	2	43.70
3017	Internal Elbow	1	10	10	104.00
3018	External Elbow	1	5	3	100.70
3028	Utility Box	1	6	13	440.00
3046A	Single Receptacle Cover (For Devices Rated 15A125V, 10A125V)	1	10	2¾	46.20
3046B	Duplex Receptacle Cover	1	10	2¾	46.20
3046C	Tumbler Switch Cover	1	10	2¾	46.20
3046D	Surface Device Cover	1	10	2¾	46.20
3046E	Screw Type Sign Receptacle Cover	1	10	2¾	46.20
3008C	Hanger Casting (Tapped for ½" Conduit)	1	4	7½	150.90
3008D	Loop Hanger	2	20	1¾	30.30
3008F	Adjustable Ratchet Hanger (Tapped for ½" Conduit)	1	5	6	226.40
3008M	Messenger Cable Hanger	5	10	1¾	106.70
3010A	End Fitting, ½" Knockout	1	20	4	60.40
3010B	Blank End Fitting	5	20	2	22.90
3010C	End Fitting, 1" Knockout	1	4	1¾	90.50
3011	90° Flat Elbow	1	5	5	100.50
3015	Tee	1	5	10	167.80
3046F	Surface Type Sign Receptacle Cover	1	10	2¾	46.20
3046G	Condulet Device Cover	1	10	2¾	46.20
3046H	Fixture and Drop Cord Cover	1	10	2¾	46.20
3046J★	Single Receptacle Cover (For Devices Rated 20A250V)	1	10	2¾	46.20
3046K	Circuit Breaker Cover (For Quick Lag Type Circuit Breaker)	2	20	10½	242.00
3086	Adj. Offset Connector	1	5	4¼	182.90

*Unpainted

All items on this page except ★ listed by Underwriters' Laboratories, Inc.

No. 3000 (continued)



NEW 3-WIRE GROUNDING FITTINGS

No.	Unit Pkg.	Std. Pkg.	List Price Per 100
1543G	1	20	$250.00
2127G	1	40	100.00

The above will take the new Nema 3 Blade Grounding Plug or Standard 2 Blade Polarized or Non-Polarized Plug Cap. These fittings are for use with No. 1500 or No. 2100 Wire Mold Raceways.

in brief

WIREMOLD

IS EASILY INSTALLED
IS EASILY EXTENDED
IS SAFE
IS ALWAYS AVAILABLE
IS THE BEST KNOWN AND MOST WIDELY USED SYSTEM OF SURFACE METAL RACEWAYS

NATIONAL XTENSIONDUCT



Listed and approved by the Underwriters' Laboratories, Inc. Finished in neutral brown mahogany to match oak, birch, walnut or mahogany woodwork. Fittings, plates and bakelite receptacles finished same. Wires laid-in. Cover snaps on. For extension wiring from existing convenience outlet. Takes two No. 14 wires. Five foot lengths.

No.	Unit Pkg. Feet	Std. Pkg.	Wgt. 100 Ft.	List Price per 100 Ft.
111	100	1000	16 lbs.	$14.75

NATIONAL XTENSIONDUCT FITTINGS ONLY

LOW POTENTIAL FIBRE BUSHING


100

Used where Xtensionduct is used without fittings for covering bell or signal wire.

No.	Unit Pkg.	Std. Pkg.	Wgt. Std. Pkg. Lbs.	List Price per 100 lbs.
100	10	100	1	$4.85


113

NATIONAL ADAPTER

Xtensionduct to 333 Molding Fittings.

113	10	50	3	$12.10

CUTTING AND NOTCHING GAUGE


122

Miter gauge which assures close and neat fitting joints and corners. Xtensionduct only.

122	1	1	1¼	$3.85


136

FLAT ELBOW COMPLETE

For use at left or right bends in Xtensionduct, 90°. Supplied with base.

136	5	50	2	$29.70


137

NATIONAL EXTERNAL ELBOW CAP

For use at outside corners, 90°.

137	5	50	1½	$16.50

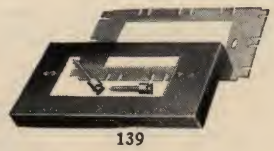

138

NATIONAL INTERNAL ELBOW CAP

For use at inside corners, 90°.

138	5	50	1½	$16.50

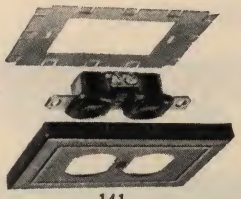
NATIONAL BOX EXTENSION ADAPTER


139

To accommodate extensions from outlets requiring other than standard convenience receptacles. This fitting may be used with any standard wiring device including P&S Despard Line.

139	1	5	5	$104.70

NATIONAL BOX EXTENSION DEVICE


141

To accommodate extensions from existing outlets. Includes plate and T-slot receptacle.

No.	Unit Pkg.	Std. Pkg.	Wgt. Std. Pkg. Lbs.	List Price per 100 Lbs.
141	1	20	10	$141.70

NATIONAL COUPLING


144

For connecting base. Capping may overlap joint.

No.	Unit Pkg.	Std. Pkg.	Wgt. Std. Pkg. Lbs.	List Price per 100 lbs.
144	10	50	1	$2.65

BASEBOARD OFFSET ELBOW


176

For runs from face to top of baseboard. Supplied with base.

176	5	20	2	$29.05

DUPLEX RECEPTACLE WITH PARALLEL SLOTS


350

Consists of Parallel slot duplex receptacle and steel housing for surface mounting. Four twistouts for Molding or Xtensionduct.

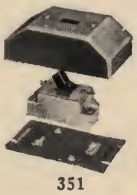
No.	Unit Pkg.	Std. Pkg.	Wgt. Std. Pkg. Lbs.	List Price per 100 Lbs.
350	1	20	9	$141.70

DUPLEX RECEPTACLE WITH T-SLOTS

Consists of T-slot duplex receptacle and steel housing for surface mounting. Four twistouts for Molding or Xtensionduct.

350-T	1	20	9	$163.45

STREAMLINED SINGLE POLE TOGGLE SWITCH


351

Consists of toggle switch and steel housing for surface mounting. Four twistouts for Molding or Xtensionduct.

No.	Unit Pkg.	Std. Pkg.	Wgt. Std. Pkg. Lbs.	List Price Each
351	1	20	8	$193.25

NATIONAL "PLUG-IN" STRIP AND FITTINGS

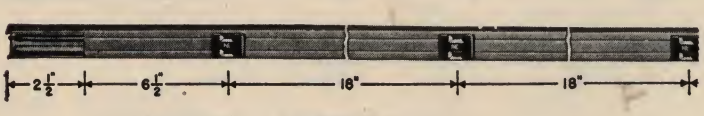
"PLUG-IN" STRIP



CF2-603-6



CF2-606-6



CF-2-606-18



CF2-615 "FILL-IN" STRIP

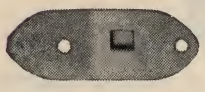
"Plug-in" Strips—All steel, baked enamel, neutral satin gray finish (easily repainted to desired shade of color). Wired with No. 12 AWG wire. Furnished with four CF2-607 mounting clips and four CF2-645 straps for either baseboard or surface mounting. For 15 amperes, 125 volt or 10 amperes, 250 volt service.

CF2 "Plug-in" Strip—6′ length, outlets every 6″ or 18″, and 3′ lengths with outlets every 6″. Quickly installed on top of baseboard or may be mounted directly on the surface.

CF2-615 "Fill-in" Strip—6′ length. Is a blank raceway used with "Plug-in" strips to fill in ends, corners, behind radiators or other inaccessible places.

No.	Lgth.	Plug-ins Per Lgth.	Unit Pkg.	Std. Pkg.	List Price Per Lgth.
CF2-606-18	6′	4	1	10	**$4.70**
CF2-603-6	3′	5	1	10	**3.80**
CF2-606-6	6′	11	1	10	**5.40**
CF2-615	6′	6	1	10	**2.50**

"PLUG-IN" MOUNTING CLIP AND STRAP



CF2-607



CF2-645

Clips fasten to back of "Plug-in" strip for mounting on top of baseboard.
Straps used to mount "Plug-in" strip on the surface. Sufficient quantity clips and straps furnished with every length.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-607	Clip	50	100	**$0.03**
CF2-645	Strap	50	100	**.02**

NE-600 CRIMPING TOOL



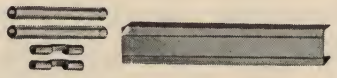
For connecting Crimp Connectors on CF2 and CF3 "Plug-in" Strap.

Tool is a wire cutter, stripper and measuring gauge. The only approved tool for connecting crimp connectors to No. 12 wires of "Plug-in" strip.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
NE-600	Crimping tool	1	1	**$6.30**

"PLUG-IN" STRIP FITTINGS

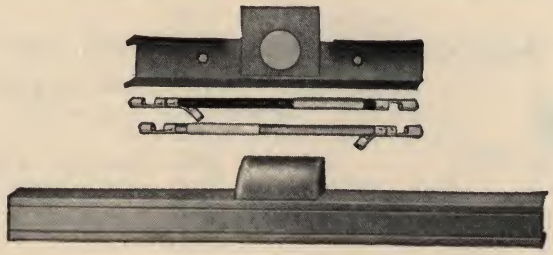
NO. CF2-644 COUPLING CAPPING



Covers open end of adjoining lengths of "Plug-in" strip. Furnished with crimp connectors and insulator tubes.

No.	Lgth.	Unit Pkg.	Std. Pkg.	List Price Each
CF2-644	5″	5	20	**$0.32**

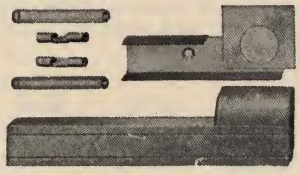
NO. CF2-618 CENTER FEED JUNCTION BOX



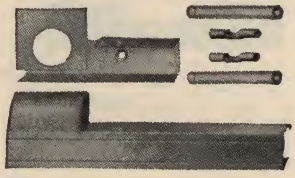
For connecting circuit wires to "Plug-in" ½″ conduit knockout in bases. Furnished with two splicing jumpers ready for crimp-on connection to circuit.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-618	Junction box	5	20	**$1.58**

END FEED JUNCTION BOX



CF2-616L

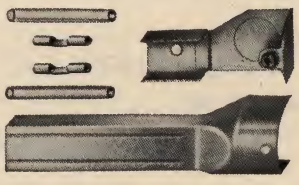


CF2-616R

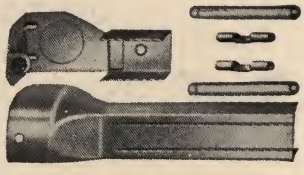
For bridging doorways, fireplaces, etc., or used as an end circuit feed. Has ½″ conduit knockout in base. Furnished with crimp connectors and insulator tubes for crimp-on connectors. Overall lengths 6⅝″.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-616-L	Left	5	20	**$0.94**
CF2-616-R	Right	5	20	**.94**

90° AND STRAIGHT END JUNCTION BOX



CF2-617L



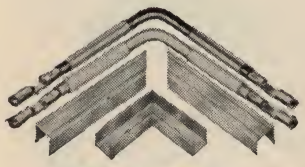
CF2-617R

For bridging doorways, fireplaces, etc., or used as an end circuit feed. Has ½″ conduit knockout in base. Furnished with Crimp Connectors and Insulator Tubes for crimp-on connection. Overall lengths 6⅜″.

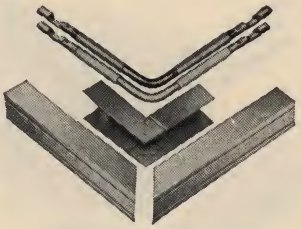
No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-617L	Left	5	20	**$0.94**
CF2-617R	Right	5	20	**.94**

NATIONAL "PLUG-IN" STRIP AND FITTINGS

"PLUG-IN" STRIP AND EXTERIOR ELBOW



CF2-636 Flat Elbow

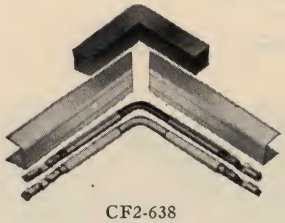


CF2-637 Exterior Elbow

Two-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Furnished with two copper jumpers ready for crimp-on connection.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-636	Strip elbow	5	20	$1.26
CF2-637	Exterior elbow	5	20	1.26

INTERIOR ELBOW

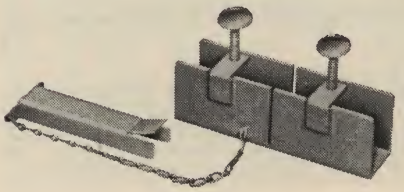


CF2-638

Elbow is two-piece capping over base. Capping leg acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbows are furnished with two copper jumpers ready for crimp-on connection.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-638	Interior elbow	5	20	$1.26

CUTTING GAUGE

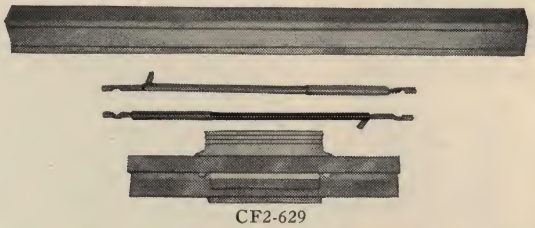


CF2-623

For use in cutting back "Plug-in" Strip and capping to desired measurements.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-623	Cutting gauge	5	20	$3.20

DEVICE AND OUTLET BOX COVER



CF2-629

For use as cover plate on Device and Outlet Box feed installations. Furnished with two splicing jumpers ready for crimp-on connection. Overall length 12".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-629	End blank	5	20	$1.58

END BLANK AND WIRE NUTS



CF2-680

Covers cut-back opening of termination of "Plug-in" Strip runs. Furnished with two Wire Nuts for insulating conductor ends. Overall length—2½".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-680	End blank	5	20	$0.34

LUMILINE "PLUG-IN"



CF2-961

Lamp "Plug-ins" for Lumiline Tubular and Mazda lamps. Shallow type for multiple use.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF2-961	Lamp "Plug-in"	5	20	$0.50

LAMP "PLUG-IN"



CF2-965

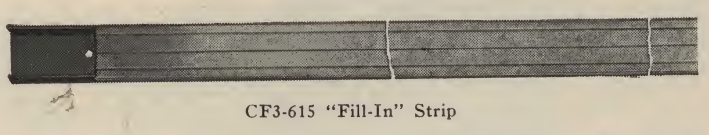
For use where single lamps are used exposed. Deep type—with Switch.

No.	Unit Pkg.	Std. Pkg.	List Price Each
CF2-965	5	20	$1.10

NATIONAL "PLUG-IN" STRIP



CF3-606-18



CF3-615 "Fill-In" Strip

Continuous copper conductor system the entire length of the circuit. Not a screw in the system. Designed especially for the home to provide a spread of outlets. For constant electrical service to electric clocks or where control is desired at the appliance itself, such as radios, phonographs, etc. The plug may be inserted in the bottom receptacle slots. Plugging in on the top slots of the receptacle, all utilities can be switch controlled—ideal for floor lamps, table lamps and other lighting arrangements. CF3 "plug-in" strip is wired with No. 12 AWG wire—for 15 ampere, 125 volts or 10 ampere, 250 volt service.

Four CF3-607 mounting clips, four CF3-645 straps are furnished with each length to facilitate either baseboard or surface mounting. Outlets every 18". Installation same as with CF2 strip. Baked enamel satin gray, finished gray blend with any color of interior decoration.

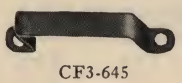
No.	Lgth.	Plug-in Per Lgth.	Unit Pkg.	Std. Pkg.	List Price Per Lgth.
CF3-606-18	6′	4	1	10	$6.00
CF3-615	6′	6	1	10	3.40

NATIONAL "PLUG-IN" STRIP AND FITTINGS

MOUNTING CLIP AND STRAP



CF3-607

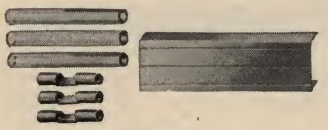


CF3-645

Clips fasten to the back of "Plug-in" Strip for mounting on top of the baseboard. Straps are used to mount "Plug-in" Strip on the surface. Clips and Straps are furnished with every length of "Plug-in" Strip.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-607	Clip	50	100	$0.05
CF3-645	Strap	50	100	.03

COUPLING CAPS

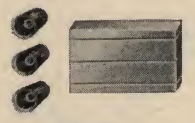


CF3-644

Covers open end of adjoining lengths of "Plug-in" Strip. Furnished with Crimp Connectors and Insulator Tubes. Over-all length 5".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-644	Coupling capping	5	20	$0.42

END BLANK AND WIRE NUTS

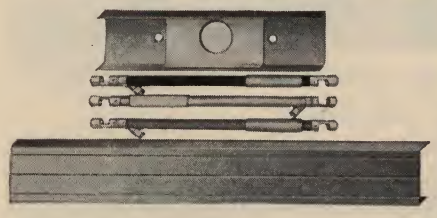


CF3-680

To cover cut-back opening at termination of "Plug-in" Strip runs. Furnished with three Wire Nuts for insulating conductor ends. Overall length 2½".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-680	End blanks	5	20	$0.42

CENTER FEED JUNCTION BOX

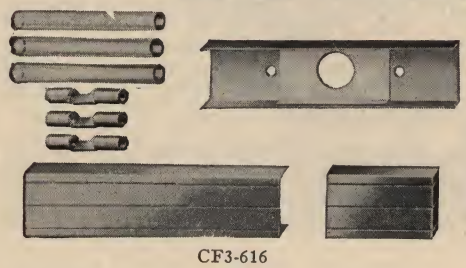


CF3-618

For connecting circuit wires to 3-wire "Plug-in" Strip. Furnished with 3 splicing jumpers ready for crimp-on connection. ½" conduit knockout in base. Overall length 11".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-618	Junction box	5	20	$1.78

END FEED JUNCTION BOX

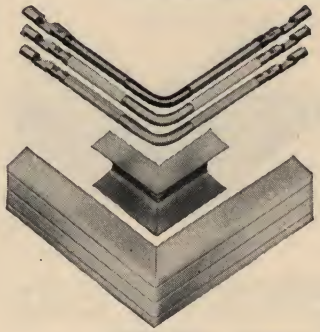


CF3-616

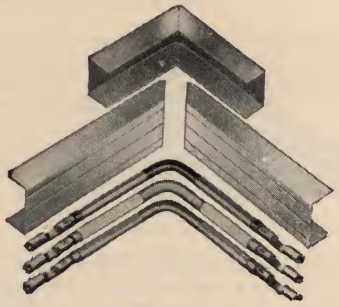
Accommodates circuit feed-ins on any end of 3-wire "Plug-in" Strip runs. Has ½" conduit knockout in base. Furnished with 3 Crimp Connectors and Insulator Tubes for crimp-on connection. Overall length 8½".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-616	Junction box	5	20	$1.26

EXTERIOR AND INTERIOR ELBOWS



CF3-637



CF3-638

Elbow is two-piece capping over base. Capping leg of Elbow acts as Coupling Cover to adjoining length of "Plug-in" Strip. Elbows are furnished with three copper jumpers ready for crimp-on connection. Overall length of each leg—5".

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-637	Exterior elbow	5	20	$1.58
CF3-638	Interior elbow	5	20	1.58

CUTTING GAUGE



CF3-623

For use in cutting back 3-wire "Plug-in" Strip and capping to desired measurements.

No.	Description	Unit Pkg.	Std. Pkg.	List Price Each
CF3-623	Cutting gauge	1	1	$4.20

"LOPO" TRIM

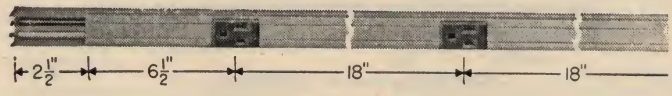


LT-606

A hollow steel quarter-round trim for "Plug-in" strip. No fishing principle—just tuck the wire in. Besides being a finish trim for "Plug-in" it is a hollow steel quarter-round raceway used to carry low potential wires such as telephone, inter-communication and buzzer on top of baseboard. Held in place with projecting steel prongs which exert a tension that holds the trim snuggly in place. No nails, screws or fasteners needed. Finish—neutral satin gray.

No.	Description	Lgth.	Std. Pkg.	List Price Each
LT-606	"Lopo" trim	6′	17	$1.40

TYPE C2-G GROUNDING "PLUG-IN" STRIP

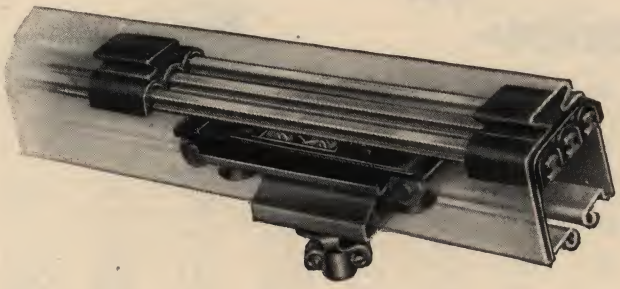


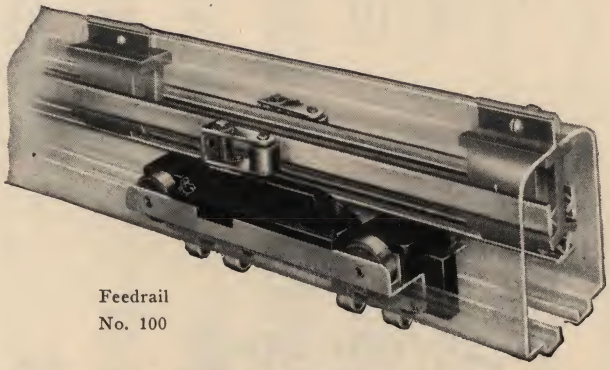
CF2G-606-18

For grounding and safety requirements in commercial, industrial and residential installations. "Plug-in" strip is wire with No. 12 AWG wire for 15 ampere, 125 volt service. Furnished with four CF2-607 mounting clips and four CF2-645 straps to facilitate either baseboard or surface mounting. Neutral satin gray finish. Type CF2-G "Plug-in" strip takes grounded portable equipment. Also takes present ungrounded equipment. Listed Underwriters' Laboratories, Inc.

No.	Lgth.	Plug-ins Per Lgth.	Unit Pkg.	Std. Pkg.	List Price Per Lgth.
CF2G-606-18	6′	4	1	10	$6.30
CF2G-606-6	6′	11	1	10	8.32

Feedrail
No. 60





Feedrail
No. 100

INSTALL FACTORY FABRICATED

ELECTRIC FEEDRAIL

THE SYSTEM WITH THE

MOVABLE POWER OUTLET

The Feedrail trolley busway electric power distribution systems are shipped ready for installation. Any competent electrician can assemble, mount and connect the system. No special tools are necessary—just a screwdriver and a wrench. The standardized units can be joined together easily and simply to make a run of any length or contour.

Mobile trolley outlets can be quickly inserted in the track to provide a convenient source of power wherever electric equipment is required to move. Power outlets are always available to immediately connect machines in any plant properly equipped with a Feedrail system.



It can be modified, extended, moved or reassembled, re-using all of the original units. This flexibility allows users unlimited scope in pre-planning more productive factory layouts. The following Feedrail systems are available to meet a wide range of requirements.

"60" Systems—60 Ampere Track Capacity

"100" Systems—100 Ampere Track Capacity

Heavy Duty Systems—250-375-500 Ampere Track Capacity

Multiple Conductor Systems for Power and Control

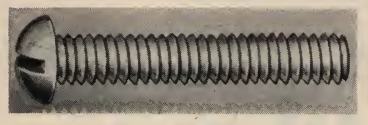
Complete Information and Prices on Application



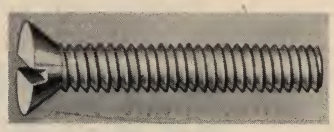


STEEL MACHINE SCREWS

PLAIN FINISH



Round Head



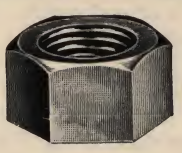
Flat Head

LIST PRICE PER GROSS

Size Lgth.	6/22	3/32	10/24	12/24	¼-20
⅛"	$0.47	....	....	....	....
3/16"	.48	$0.60	$0.67	....	....
¼"	.49	.62	.69	$0.83	....
5/16"	.50	.64	.71	.86	$1.10
⅜"	.51	.66	.73	.89	1.13
7/16"	.52	.68	.75	.92	1.16
½"	.54	.70	.77	.95	1.20
9/16"	.55	.72	.79	.98	1.24
⅝"	.57	.74	.82	1.02	1.28
¾"	.60	.77	.87	1.08	1.36
⅞"	.65	.81	.92	1.14	1.45
1"	.70	.88	.98	1.20	1.55
1⅛"	.80	.96	1.06	1.30	1.65
1¼"	.90	1.04	1.15	1.40	1.75
1½"	1.00	1.16	1.30	1.55	1.95
1¾"	1.10	1.28	1.45	1.70	2.15
2"	1.20	1.40	1.60	1.85	2.35
2¼"	....	1.55	1.80	2.05	2.55
2½"	....	1.70	2.00	2.25	2.80
2¾"	....	1.85	2.20	2.50	3.10
3"	....	2.00	2.40	2.75	3.40

MACHINE SCREW NUTS

HEXAGON STEEL

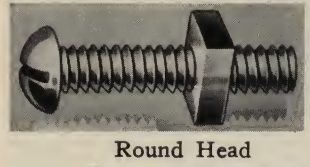


Size	Per Gross
6/32	$1.40
8/32	1.52
10/24	1.64
¼-20	2.40

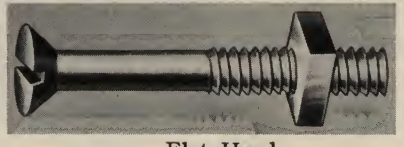
Packed one gross in a carton.

STOVE BOLTS

WITH SQUARE NUTS



Round Head



Flat Head

LIST PRICE PER 100 (NOT ASSEMBLED)

Size Lgth.	⅛"	5/32"	3/16"	¼"	5/16"	⅜"
⅜"	$0.86	$0.95	$1.00	....	....	....
½"	.88	.97	1.04	$1.55	....	....
⅝"	.90	.99	1.08	1.60	....	....
¾"	.92	1.02	1.12	1.65	$2.65	$3.80
⅞"	.95	1.06	1.16	1.70	2.70	3.90
1"	1.00	1.10	1.20	1.75	2.80	4.00
1⅛"	1.05	1.15	1.25	1.80	2.90	4.15
1¼"	1.10	1.20	1.30	1.90	3.00	4.30
1½"	1.20	1.30	1.40	2.05	3.20	4.60
1¾"	1.30	1.45	1.55	2.20	3.50	4.90
2"	1.45	1.60	1.75	2.40	3.80	5.20
2¼"	....	....	1.90	2.65	4.10	5.60
2½"	....	....	2.10	2.90	4.40	6.00

STEEL WOOD SCREWS



Flat Head



Round Head

LIST PRICE PER GROSS

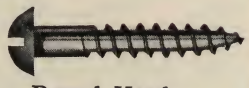
Size Lgth.	¼"	⅜"	½"	⅝"	¾"	⅞"	1"	1¼"
2"	$0.88	$0.92	$0.96	$1.00	....	....	....	....
3"	....	.92	.96	1.00	....	....	....	....
4"	.92	.96	1.00	1.04	$1.08	$1.12	$1.20	$1.42
5"	....	.96	1.00	1.04	1.08	1.12	1.20	1.42
6"	....	1.00	1.04	1.08	1.12	1.20	1.32	1.50
7"	....	....	1.08	1.12	1.20	1.28	1.40	1.54
8"	....	....	1.16	1.20	1.28	1.36	1.46	1.62
9"	....	....	....	....	1.42	1.50	1.58	1.74
10"	....	....	....	....	1.58	1.66	1.74	1.92
12"	....	....	....	....	1.80	1.96	2.12	2.30
14"	....	....	....	....	....	....	2.62	2.96
16"	....	....	....	....	....	....	....	3.92

Size Lgth.	1½"	1¾"	2"	2¼"	2½"	3"	3½"	4"
6"	$1.66	....	....	....	....	....	....	....
7"	1.70	....	....	....	....	....	....	....
8"	1.80	$2.00	$2.20	....	$2.62	....	....	....
9"	1.96	2.18	2.38	....	2.80	....	....	....
10"	2.12	2.34	2.56	$2.80	3.04	$3.54	$4.92	....
12"	2.54	2.84	3.14	3.46	3.78	4.80	4.92	....
14"	3.30	3.64	3.98	4.34	4.84	6.00	7.16	$8.00
16"	4.34	4.75	5.16	....	6.34	7.50	8.35	9.15
18"	5.30	....	6.40	....	7.90	9.40	10.45	11.70

BRASS WOOD SCREWS



Flat Head



Round Head

LIST PRICE PER GROSS

Size Lgth.	⅜"	½"	⅝"	¾"	⅞"	1"	1¼	1½"	2"
4"	$1.44	$1.58	$1.76	$1.96	$2.16	$2.38	....	....	....
6"	1.75	1.94	2.20	2.45	2.70	2.98	$3.46	$4.08	....
8"	....	2.50	2.84	3.18	3.52	3.85	4.52	5.20	$6.54
10"	....	....	....	3.98	4.40	4.86	5.65	6.58	8.38
12"	....	....	....	....	....	6.25	7.28	....	....

PAINE TOGGLE BOLTS

Spring-In Toggle Bolts—Round Heads



No.	Size	List Price Per 100	No.	Size	List Price Per 100
5507	⅛"x3"	$9.00	5521	5/16"x5"	$14.00
5508	⅛"x4"	10.00	5522	5/16"x6"	15.00
5510	3/16"x3"	9.50	5523	⅜"x3"	14.00
5511	3/16"x4"	10.00	5524	⅜"x4"	16.00
5513	3/16"x6"	12.50	5525	⅜"x5"	18.00
5515	¼"x3"	10.50	5526	⅜"x6"	20.00
5516	¼"x4"	11.00	5527	½"x4"	25.00
5518	¼"x6"	15.50	5528	½"x5"	28.00
5519	5/16"x3"	12.00	5529	½"x6"	30.00
5520	5/16"x4"	13.00			

50 Bolts to a Carton



RAWL-PLUGS

Only universal anchor which can be used in any material: brick, concrete, stone, marble, hollow and glazed tile, glass, metal, wood, bakelite and similar compounds.

Use No.	Rawl-Plug Dia. Inc.	Rawl-Plug Lgt. Inc.	For Woodscrew Size Inc.	For Woodscrew Lgt. Inc.	Std. Pkg.	Wgt. Lbs.	List Price Per 100
6	5/32	5/8	5-6	1	100	1	$2.70
6	5/32	3/4	5-6	1 1/4	100	1 1/4	2.80
6	5/32	1	5-6	1 1/2	100	1 3/4	3.00
8	11/64	5/8	7-8	1	100	1 3/8	3.10
8	11/64	3/4	7-8	1 1/4	100	1 5/8	3.20
8	11/64	1	7-8	1 1/2	100	2	3.40
8	11/64	1 1/2	7-8	2-2 1/2	100	3 1/4	3.80
10	3/64	3/4	9-10	1 1/4	100	1 5/8	3.40
10	3/64	1	9-10	1 1/2	100	2 1/4	3.80
10	3/64	1 1/4	9-10	1 3/4	100	3	4.20
10	3/64	1 1/2	9-10	2-2 1/2	100	3 3/8	4.60
12	1/4	3/4	11-12	1 3/4	100	2 1/2	4.20
12	1/4	1	11-12	1 1/2	100	3 1/4	4.60
12	1/4	1 1/4	11-12	1 3/4	100	4 3/8	5.00
12	1/4	1 1/2	11-12	2-2 1/2	100	4 3/4	5.40
14	9/32	1	14	1 1/2	100	4 5/8	5.40
14	9/32	1 1/4	14	1 3/4	100	5 5/8	6.00
14	9/32	1 1/2	14	2-2 1/2	100	6 1/4	6.60
14	9/32	2	14	3-3 1/2	100	8 5/8	7.80
16	5/16	1	16	1 1/2	50	2 5/8	6.10
16	5/16	1 1/2	16	2-2 1/2	50	3 3/4	7.60
16	5/16	2	16	3-3 1/2	50	4 7/8	9.10
20	3/8	1	20	1 1/2	50	3 7/8	9.00
20	3/8	1 1/2	20	2-2 1/2	50	5 1/2	11.00
20	3/8	2	20	3-3 1/2	50	5 7/8	13.00

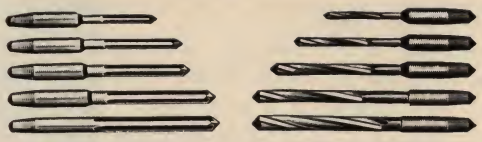
RAWL-DRIVES

Specify Countersunk or Round Head

Dia. Inc.	Lgt. Inc.	Drill No.	Std. Pkg.	Wgt. Per 100	List Price Per 100
3/16	1	8	100	1 3/4	$8.00
3/16	1 1/4	8	100	2	8.40
3/16	1 1/2	8	100	2	9.40
3/16	2	8	100	2 1/4	11.40
3/16	2 1/2	8	100	2 1/4	13.40
1/4	1 1/4	12	100	3	10.20
1/4	1 1/2	12	100	3 1/2	11.20
1/4	2	12	100	4	13.00
1/4	2 1/2	12	100	4 1/4	15.00
1/4	3	12	100	4 1/2	17.00
1/4	3 1/2	12	100	5	19.00
5/16	1 1/2	16	50	6	14.30
5/16	2	16	50	7	16.35
5/16	2 1/2	16	50	8	18.20
5/16	3	16	50	9	19.70

RAWL-DRILLS





STRAIGHT FLUTE M/T (Machined Type) Rawl-Drills — TWIST FLUTE (R/T) Rawl-Twist Drills

Size	Dia. Inc.	Length Inc.	Drilling Depth Inc.	Use Drill Holder No.	Drill Holders Per Doz.	List Price Per Doz.
6	5/32	2 3/4	1	14	$24.00	$11.50
8	11/64	3 1/4	1 5/8	14	24.00	11.50
10	3/16	3 1/4	1 5/8	14	24.00	11.50
12	1/4	3 3/4	2	14	24.00	11.50
14	9/32	3 3/4	2 1/4	14	24.00	12.50
16	5/16	4 1/4	2 3/8	14	24.00	13.60
		M/T R/T	M/T R/T			
20	3/8	4 1/4 5	2 3/4 3 1/8	20	30.00	15.70
7/16	7/16	5 1/8 5 1/8	3 1/8 3 1/8	20	30.00	31.00
1/2	1/2	5 7/8	3 3/8	20	30.00	34.00
5/8	5/8	6	4	20	30.00	45.00
3/4	3/4	6	4	20	30.00	60.00



RAWL-GRIP

No.	Description	List Price Each
14	(Fits No. 14 Holder)	$2.25
20	(Fits No. 20 Holder)	2.25

RAWL-CHUCK



Chrome nickel steel accurately machined and heat treated for severe service in all standard electric and pneumatic chipping hammers.

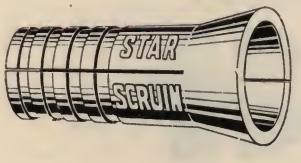
	List Price Each
Rawl-Chucks	$8.00
Special Tool Steel Drift Pins for Chucks	1.80
Extra Shank Pins for Pneumatic Chucks	2.00

In ordering be sure to specify make of hammer and size, and if penumatic whether round or hexagon barrel, and whether for No. 14, No. 20 or No. 5/8 drill taper.

TAPER SHANK (T/S) RAWL-DRILLS



Size Actual Dia.	Length Over All 6" List Price Per Doz.	Length Over All 12" List Price Per Doz.	Size Actual Dia.	Length Over All 6" List Price Per Doz.	Length Over All 12" List Price Per Doz.
3/8 "	$13.80	—	7/8 "	$22.80	$27.60
7/16"	13.80	$15.60	1 "	22.80	28.80
1/2 "	13.80	15.60	1- 1/8 "	33.60	37.80
9/16"	16.20	—	1- 1/4 "	—	49.20
5/8 "	16.20	18.60	1- 3/8 "	—	52.80
11/16"	18.00	—	1- 1/2 "	—	60.00
3/4 "	18.00	19.80	1- 5/8 "	—	72.00
13/16"	20.40	—			

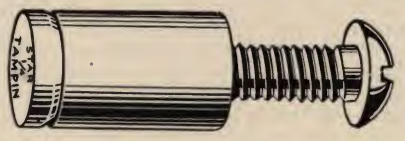


SCRUIN

LEAD ANCHORS FOR WOOD SCREWS

No.	Screw Size and Length of Anchor	Fractional Screw Size	Outside Diam. and Drill Req.	Std. Pkg.	List Price Per 100 (Without Screws)
408	6-8x3/4"	1/8"-3/16"	1/4"	100	$5.00
409	6-8x1 1/2"	1/8"-3/16"	1/4"	100	5.60
412	10-12-14x1"	3/16"-1/4"	5/16"	100	5.60
413	10-12-14x1 1/2"	3/16"-1/4"	5/16"	100	8.00
417	16-18x1"	5/16"	3/8"	25	6.25
418	16-18x1 1/2"	5/16"	3/8"	25	9.00
422	20-22-24x1 3/4"	3/8"	7/16"	25	10.00

ACKERMAN-JOHNSON SCREW ANCHORS



For attaching fixtures or wiring to any hard surface as brick, concrete, stone or marble, slate, etc.
Consists of a deep nut of conical design with lead-alloy expansible sleeve; factory assembled to be handled as one piece. Threaded for machine screws or bolts.

No.	Minimum Dimensions of Holes Required Diam. In.	Depth In.	List Price Each
6-32	1/4	3/8	$6.00
8-32	5/16	1/2	6.50
10-24	3/8	5/8	7.50
12-24	7/16	3/4	9.50
1/4-20	1/2	7/8	11.50

ACKERMAN-JOHNSON SETTING PUNCH

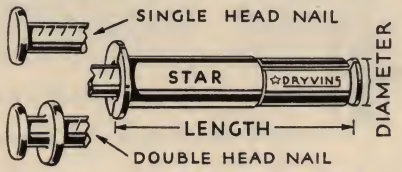


One included without charge in each box of anchors.

HAMMER DRIVE ANCHORS

RUST-PROOFED

Supplied Complete with Nails



No.	Size Inch	Drill Size	Std. Pkg.	List Price Per 100
3910	5/16 x 7/8"	3/16"	100	$8.00
3911	5/16 x 1 1/4"	3/16"	100	9.00
3915	1/4 x 1"	1/4"	100	10.00
3916	1/4 x 1 1/4"	1/4"	100	11.00
3917	1/4 x 1 1/2"	1/4"	50	12.00
3920	5/16 x 1 1/4"	5/16"	50	14.00
3921	5/16 x 1 3/4"	5/16"	25	16.00
3923	5/16 x 2 1/4"	5/16"	25	18.00
3924	5/16 x 2 3/4"	5/16"	25	20.00
3926	3/8 x 1 1/2"	3/8"	100	18.00
3927	3/8 x 2"	3/8"	25	20.00
3928	3/8 x 3 1/4"	3/8"	50	25.00
3935	1/2 x 1"	1/2"	100	25.00
3937	1/2 x 2 1/4"	1/2"	50	30.00
3938	1/2 x 2 3/4"	1/2"	50	32.00
3939	1/2 x 3 1/2"	1/2"	50	35.00

STUD BOLT ANCHORS



No.	Diameter and Length of Bolt	Type 7800 Dimensions of Minimum Holes Diam. Drill	Required Depth	Std. Pkg.	List Price Per 100 Complete
7815	1/4 x 1 1/2				$8.80
7816	1/4 x 1 3/4				8.95
7817	1/4 x 2				9.00
7818	1/4 x 2 1/2	1/2"	1"	100	9.25
7819	1/4 x 3				9.50
7819A	1/4 x 3 1/2				9.75
7819B	1/4 x 4				10.00
7825	3/8 x 2				15.00
7826	3/8 x 2 1/2				15.50
7827	3/8 x 3				16.00
7828	3/8 x 3 1/2	5/8"	1 1/2"	50	16.50
7829	3/8 x 4				17.00
7829A	3/8 x 5				18.00
7829B	3/8 x 6				19.00
7835	1/2 x 3				34.00
7837	1/2 x 4	7/8"	2"	25	38.00
7838	1/2 x 5				42.00
7839	1/2 x 6				47.00



EXPANSION SHIELDS

Single Machine Bolt Type with Bolts

No.	Bolt Dia. Shield Use	Lgt. Shield	O.D. Drill Req.	Std. Pkg.	List Price Per C
3615	1/4"	1 1/4"	1/2"	100	$15.00
3616	1/4"	2 1/2"	1/2"	100	15.00
3623	*5/16"	1 1/2"	5/8"	100	18.00
3620	5/16"	2"	5/8"	100	18.00
3628	*3/8"	1 1/2"	5/8"	100	25.00
3625	3/8"	2"	5/8"	100	25.00

Single Machine Bolt Type with Bolts

No.	Bolt Dia. Shield Use	Lgt. Shield	O.D. Drill Req.	Std. Pkg.	List Price Per C
3630	7/16"	2 1/2"	7/8"	50	$32.00
3638	*1/2"	2"	7/8"	50	38.00
3635	1/2"	2 1/2"	7/8"	50	38.00
3648	*5/8"	2 1/2"	1"	50	45.00
3645	5/8"	3"	1"	50	45.00
3655	3/4"	3 1/2"	1 1/8"	50	65.00

*Short lengths for light work or shallow holes in good masonry. Long lengths furnished unless shorts specified.

MASONRY DRILL POINTS

SEBCO LARGE SHANK



No.	Diam.	Lgth. (Note)	Std. Pkg.	List Price Per Doz.
4210	5/16"	2 5/8"	12	$10.80
4212	7/32"	3 1/16"	12	10.80
4215	1/4"	3 1/4"	12	10.80
4217	9/32"	3 5/8"	12	11.80
4220	5/16"	4 1/2"	12	12.80
4222	11/32"	4 3/8"	12	13.80
4225	3/8"	5 1/16"	12	14.80
4230	7/16"	5 1/4"	12	18.80
4235	1/2"	5 9/16"	12	22.80
4240	5/16"	4 3/8"	6	$26.80
4245	5/8"	5 1/2"	6	28.80

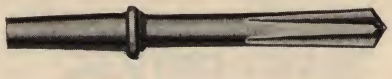
***Special Long Lengths**

No.	Diam.	Lgth. (Note)	Std. Pkg.	List Price Per Doz.
4216	1/4"	6"	12	$13.60
4218	9/32"	6"	12	15.00
4221	5/16"	6"	12	19.20
4223	11/32"	6"	12	20.40
4238	1/2"	14"	12	78.00

(Note)—Length given is overall including the taper. Deduct approximately one inch for actual drilling depth.
*Special Long Lengths furnished when specified only.

STAR TYPE DRILL POINTS

SEBCO OR LARGE SHANK ONLY



No.	Diam.	Std. Pkg.	List Price Per Doz.
1315	1/4"	12	$ 8.50
1320	5/16"	12	8.50
1325	3/8"	12	8.50
1335	*1/2"	12	10.00
1340	9/16"	12	12.00
1345	5/8"	12	$12.00
1355	3/4"	12	14.00
1360	7/8"	6	16.00
1365	1"	6	18.00

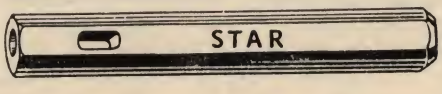
*1" and larger are furnished in three-point style.

DRILL HOLDERS



No.		List Price Per Doz.
5200	Rubber Grip Holder	$48.00

Knock-Out Pin Furnished with All Holders.
Specify Large or Small Shank When Ordering.



5400 Plain Holder $24.00

Knock-Out Pin Furnished with All Holders.
Specify Large or Small Shank When Ordering.

STAR HAMRTWIST DRILL KITS

Kit contains one of each size Hamrtwist drill points for drilling 3/16, 1/4, 5/16, 3/8, and 1/2-inch holes. Extra spaces provided for carrying additional points of the sizes more frequently used. Shipping weight each kit filled, 1½ pounds.

Description	List Price Each
Drill Kit Complete with Plain Holder	$7.00
Kit Complete with Rubber Grip Holder	8.00
Drill Kit, Empty	1.00

TAPES



GOLD SEAL FRICTION TAPE

Size	List Price per 100 Rolls
2-oz. tape	$10.15
4-oz. tape	40.60
8-oz. tape	81.20



SLIPKNOT BROWN FRICTION TAPE

APPROXIMATELY 70′ TO ROLL

No. 6—Slipknot tape. List price per 100 rolls $81.20



MANSON FRICTION TAPE

8-oz. roll. List price per roll..... $1.20



GOLD SEAL SPLICING COMPOUND RUBBER TAPE

List price per 100 rolls..... $89.10



OKONITE RUBBER TAPE

8-oz. roll. List price per roll..... $1.41



"SCOTCH" TAPES

NO. 33 ELECTRICAL WITH PLASTIC BACKING



Highly resistant to most chemicals, salt, grease, oils and alkalies. Extremely tough and presents good resistant to abrasion. Reduces outdoor maintenance installation costs. Plastic backing will not dry out, check or crack when exposed to sunlight.

Combination high dielectric, thin caliber is outstanding characteristic of this type, are important in junction boxes. Unilets, fixture openings, where minimum bulk is important, is stretchy and moulds snugly to irregular surfaces. For power cables, binding electrical harnesses, wiring machine tools, bus and truck ignition, printing presses.

No.	Size	Pkg.	Ctn.	Type Back	Tick. in mills	Tensile Strength in lbs.	List Price Each
33	¾″x66 ft.	1 roll per can	12	Blk.	7	25	$3.00
33	¾″x20 ft.	12 rolls per tube	144	Blk.	7	25	1.10

NO. 22 ELECTRICAL WITH PLASTIC BACKING

Same as No. 33, except is thicker, builds up the splice more rapidly, is tough and flexible. Popular for industrial construction and maintenance, public utilities, municipal power plants, electrical contractors and large industrial plants. For insulating large splices, transformers, circuit breaker connections, bus bars, etc. Used as protective coating for pipe welds against the corrosive action of water, acids, alkalies and soil chemicals.

22	½″x36 yds.	1 box	12	Blk.	10	25	$3.90
22	¾″x36 yds.	1 box	12	Blk.	10	25	4.80
22	1″x36 yds.	1 box	12	Blk.	10	25	6.00
22	2″x36 yds.	1 box	12	Blk.	10	25	12.00

NO. 21 ELECTRICAL WITH PLASTIC BACKING

Heavy duty dielectric strength of 22,500 volts, resistant to water, oils, acids and soil chemicals. Extremely tough and highly resistant to abrasion and rough use. Popular for public utilities, municipal power plants, large industrial plants and electrical contractors. For insulating cable splices, transformer leads, circuit breaker connections, bus bars, etc.

21	½″x36 yds.	1 box	12	Blk.	20	60	$6.24
21	¾″x36 yds.	1 box	12	Blk.	20	60	7.68
21	1″x36 yds.	1 box	12	Blk.	20	60	9.60
21	2″x36 yds.	1 box	12	Blk.	20	60	19.20
21	4″x36 yds.	1 box	12	Blk.	20	60	38.40

NO. 27 ELECTRICAL WITH GLASS CLOTH BACKING

For use where high heat conditions are normal. Backing is glass cloth—real glass fibres woven into tough cloth that will not burn when subjected to high temperatures, nor shrink, stretch or rot when wet. Thermosetting adhesive is tacky, clean and easy to apply. Ideal insulation for pigtails of hi-heat wire, splices in enclosed fixtures and appliances. For foundries, steel mills and other industrial locations, where high heat is normal.

27	½″x66 ft.	1 box	12	Glass cloth	6	150	$3.50

"SCOTCHFIL" PUTTY-TYPE INSULATING COMPOUND



"Scotchfil" is a putty-like insulating compound on a liner (which should be removed at the time of use) to fill and pad voids in irregular shaped electrical equipment.

For mechanical connectors, motor terminals, to cover sharp edges, cable build-up, to insulation thickness, bus-bars, corners padded prior to taping to allow added protection. ("Scotchfil" will not corrode copper.) Sealing ends of conduit.

Apply into place by pressure of the fingers to eliminate air pockets. Nos. 32, 22 and 21 plastic tapes are compatible with "Scotchfil" thus an inseparable bond can be made which actually will add to the mechanical strength of the splice. Not recommended nor intended for use as sole insulation and exposure to oil.

Size ½″x5 ft. ind. boxed, carton 12. List price each..... $3.50

McGILL SOLDERING PASTE

STAR AND CRESCENT



Recommended for precision work. Cuts grease and dirt, saves time and labor, assures smooth, even-flowing metal. Strong and fast in action. Non-corrosive. Melting point—140° F. Underwriters' Laboratories, Inc. approved.

No.	Description	Std. Pkg.	List Price Per 100 Lbs.
2775	2 oz. Tin (in display carton of 20 Tins)	100	$24.00
2776	4 oz. Tin	100	41.00
2777	8 oz. Tin	50	77.00
2778	16 oz. Tin	50	122.00



SOLDERING PASTE

Will flux all metals except Aluminum. Takes the place of acid in all soldering jobs. Absolutely non-corrosive, safe as resin and rapid as acid. Not affected by heat and does not spatter. The solder will not turn dark after using and the work has the highest tensile strength known.

Can Size	Standard Package		List Price
2 ounces	12 to Carton	each	$0.10
1 pound	6 to Carton	per lb.	.70
10 pounds	Any Quantity	per lb.	.50
25 pounds	Any Quantity	per lb.	.45
50 pounds	Any Quantity	per lb.	.43
100 pounds	Any Quantity	per lb.	.40



SOLDERING STICK

3½ oz. Stick. List Price Each **$0.41**

BAR SOLDER



40/60 Solder ..... List Price Per 100 Lbs. **$222.20**
50/50 Solder ..... List Price Per 100 Lbs. **240.20**



KESTER WIRE SOLDER

Size Spool	Kind	List Price Per Spool
1 Lb.	Acid	$2.50
1 Lb.	Rosin	2.50

40/60 Wire Solder

5 Lb. Spool—
List Price Per 100 Lbs..... **$204.70**



SOLDER SALTS

Size	List Price Per Bottle
½ Lb.	$0.90
1 Lb.	1.20

S-W AJAX INSULATING VARNISHES

NO. 25 AJAX BLACK AIR DRYING VARNISH

Drying time: One hour on flat surface, 4 to 8 hours in the interior of a coil, dependent upon the nature of the coil, or bake one hour at 100° C. (212° F.).
Solvent: Naphtha. Approximate Reduction: 10 to 20 per cent for dip. Brush full body.
Characteristics: Asphaltic type varnish. Acid-proof and waterproof, but no oil-proof.
Recommended Uses: Field and stator coils and all types armatures except small high-speed. For emergency repair work where speed is essential, or where baking facilities are not available.

NO. 81 AJAX BLACK AIR DRYING FINISHING VARNISH

Drying time: 30 minutes on flat surface.
Solvent: Denatured alcohol.
Specific Gravity as Supplied: .960.
Reduction: Whatever is necessary to secure the desired thickness of coating.
Characteristics: May be applied by spray, brush or dip. Has smooth, sharp enamel gloss. Oil and moisture resistant.
Recommended Uses: Finishing coat on field and stator coils, armatures, etc.

MINERALLAC INSULATING COMPOUNDS

For Use in Cable Joints, Potheads and Terminal Bells

HIGH VOLTAGE COMPOUNDS

No. 1. A compound having the consistency of molasses. Not affected by moisture. Effective in drying out tape, cloth, and between layers of such materials when wound on high-voltage electrical apparatus.
No. 2A Cable joint or pothead compound. Melting point 82 degrees C. Adheres to metal or porcelain; especially suitable for use in warm climates.
No. 64. For use in mild climates where there is no great variation in temperature. A hard compound, with a melting point of approximately 93 degrees C.
No. 78. Cable joint or pothead compound. Dense and very adhesive. Recommended as an all-purpose insulating material. For voltages 6,000 and up. Melting point 90 degrees C. Dielectric strength 940 volts per mil at 30 degrees C.
No. 80. Pothead compound for use on 6,000 volts and over. Melting point 130 degrees C. Tests 990 volts per mil at 30 degrees C.
No. 104. A semi-solid compound for use in cable joints on high voltage lines over 6,000. Melting point 50 degrees C. Dielectric strength averages 800 volts per mil at 30 degrees C.
No. 104 A. Same general characteristics as No. 104, except it has a lower melting point (35 degrees C.).
A clean, creamy, non-corrosive lubricant scientifically compounded for use on all types of cable insulation where lubrication is needed to facilitate the installation of cables in conduit. Plenty of "slip"—dries out rapidly—in so doing shrinks in volume. Noninjurious to skin or clothing.

	List Price
2-Gallon Pail	$4.60
3-Gallon Pail	4.90
4-Gallon Pail	5.40

INSULATING COMPOUNDS

For high and low voltage cable joints, potheads, junction boxes, end bells, etc.

Container Size	Quantity in Gal.	Compound Number— No. 1	No. 2-A	No. 33	No. 64	No. 80-No. 78 No. 104-No. 104A
½ Gal.	Any	$2.80	$3.30	$3.80	$2.60	$2.50
	1-9	2.30	2.80	3.30	2.10	2.00
1 Gal.	10-49	2.20	2.70	3.20	2.00	1.70
	50-149	2.10	2.60	3.10	1.90	1.45
	Over 150	2.00	2.50	3.00	1.80	1.25
	2-8	2.25	2.75	3.25	2.05	1.70
2 Gal.	10-48	2.15	2.65	3.15	1.95	1.40
	40-148	2.05	2.55	3.05	1.85	1.15
	Over 150	1.95	2.45	2.95	1.75	.95
	5	2.10	2.60	3.10	1.90	1.55
5 Gal.	10-45	2.00	2.50	3.00	1.80	1.25
	50-145	1.90	2.40	2.90	1.70	1.00
	Over 150	1.80	2.30	2.80	1.60	.80
Steel Drums Approx. 400 Lb.	50 and Over	1.80	2.30	2.80	1.60	.80

For compound in less than ½-gallon container, use the ½-gallon price plus 50 per cent.
Approximate shipping weight, 10 lbs. 1 gallon. Shipments f.o.b. Chicago, Ill.

INSULATING VARNISH AND GLYPTAL

No.	Description	List per Gal.
9435	Black Baking Varnish	$5.20
1693	Black Baking Varnish	5.30
457	Black Air Drying Varnish	2.85
450	Clear Baking Varnish	4.05
1170	Clear Baking Varnish	4.70
1201	Standard Glyptal Red	6.60
1202	Glyptal Clear	6.75
1209	Glyptal Black	9.75
2704-A	Glyptal Blue-Grey	10.00
1500	Glyptal Thinner	2.50

IDEAL WIRE NUTS

1. Strip wire. 2. Screw on—that's all. "Wire-Nut" threads on to wire just like a nut on a bolt. The coil shaped spring insert presses (does not cut) clean threads into the stripped wires as the Connector is applied. Wires are tightly compressed and automatically twisted together by powerful grip. Molded composition shell completely protects against shorts, grounds and corrosion such as develop in loose solder and tape connections. Millions in use. Listed by Underwriters' Laboratories, Inc.

The Solderless, Tapeless Wire Connectors


71B

No. 71B—Joins the following combinations of A.W.G. solid and stranded wires:

2 No. 18	2 No. 16
3 No. 18	1 No. 18 & 1 No. 16

List Price
No. 30-015—Bulk only, in cartons of 1000.....**$14.00**


73B

No. 73B—Joins the following combinations of A.W.G. solid and stranded wires:

2, 3, 4 or 5 No. 18	2 No. 14
1 No. 16 & 1, 2 or 3 No. 18	1 No. 14 & 1, 2 or 3 No. 18
2 No. 16 & 1, 2 or 3 No. 18	1 No. 14 & 1 No. 16
3 No. 16 & 1 No. 18	2 No. 14 & 1 No. 18

List Price
No. 30-017—In cartons of 100.....**$2.20**
No. 30-117—Bulk, in cartons of 1000.....**18.20**


74B

No. 74B—Joins the following combinations of A.W.G. solid and stranded wires:

6 No. 18	3 No. 14 & 1 No. 18
2 No. 18 & 2, 3 or 4 No. 16	3 No. 14 & 1 No. 16
5 No. 16	4 No. 14 & 1 No. 18
2 No. 16 & 2, 3 or 4 No. 18	1 No. 12 & 1, 2 or 3 No. 18
1 No. 14 & 1, 2, 3 or 4 No. 18	1 No. 12 & 1, 2 or 3 No. 16
1 No. 14 & 1, 2, 3 or 4 No. 16	1 No. 12 & 2 No. 14
2, 3 or 4 No. 14	2 No. 12
2 No. 14 & 1, 2 or 3 No. 18	2 No. 12 & 1 No. 18

No. 30-018—In cartons of 100.....**$2.70**
No. 30-118—Bulk, in cartons of 1000.....**23.00**


76B

No. 76B—Joins the following combinations of A.W.G. sold and stranded wires:

9 No. 16	3 No. 12 & 1, 2 or 3 No. 16
4, 5 or 6 No. 14	3 No. 12 & 1 or 2 No. 14
4 No. 14 and 1, 2 or 3 No. 18	4 No. 12 & 1 or 2 No. 18
4 No. 14 and 1, 2 or 3 No. 16	4 No. 12 & 1 or 2 No. 16
5 No. 14 & 1 No. 16 or 18	4 No. 12 & 1 or 2 No. 14
6 No. 14 & 1 or 2 No. 18	1 No. 10 & 1, 2 or 3 No. 14
6 No. 14 & 1 or 2 No. 16	1 No. 10 & 1, 2 or 3 No. 12
1 No. 12 & 2, 3, 4 or 5 No. 18	1 No. 10 & 6 No. 16
1 No. 12 & 2, 3, 4 or 5 No. 16	2 or 3 No. 10
1 No. 12 & 2, 3, 4 or 5 No. 14	2 No. 10 & 1 No. 12
2, 3 or 4 No. 12	2 No. 10 & 2 No. 14
2 No. 12 & 1, 2 or 3 No. 14	2 No. 10 & 1, 2 or 3 No. 16
2 No. 12 & 1, 2, 3, 4 or 5 No.18	2 No. 10 & 1, 2, 3 or 4 No. 18
	3 No. 10 & 1 No. 18
2 No. 12 & 1, 2, 3, 4 or 5 No. 16	

No. 30-019—In Cartons of 100.....**$5.00**
No. 30-119—Bulk, in cartons of 1000.....**43.60**

IDEAL SET SCREW WIRE CONNECTORS




Approved for 600 Volts and as Pressure Cable Connectors—Extra Long—Extra Strong

For general use in branch circuit wiring, fixture hanging, machine and applance hook-up . . . wherever it is necessary to join two or more wires. Permits visual inspection of the joint **after** it has been made. It is easy to use, makes safe, permanent splices. Phenolic shell can be removed at any time for examination of the joint. Can be unscrewed and re-used readily when making changes in circuits. Suitable for conduit—armored cable—non-metallic cable and open wiring. Has an extra long skirt. Wire insulation fits right up inside the shell—snug against the end of the brass sleeve. The entire joint is perfectly insulated. Phenolic shell is extra-strong mechanically, with high dielectric for utmost safety. Underwriters' Laboratories approval for 600 volts and as pressure cable connectors.

No.	Description	List Price
30-211	No. 11—2 No. 12, 3 No. 14, 1 No. 12 and 2 No. 12 Standard Package (100) per M	$111.70
	Bulk, Carton (1000) per M	103.70
30-222	No. 22—2 No. 10, 3 No. 12, 5 No. 14, 2 No. 12 and 1 No. 14, 2 No. 12 and 2 No. 14 Standard Package (100) per M	157.30
	Bulk Carton (1000) per M	145.90



MARR WIRE CONNECTORS

Solderless—Tapeless

No.	Wire Gauges	Combinations	List Price Per 100
1	No. 12, 14, 16	2 No. 12 & 2 No. 18 3 No. 14 & 1 No. 18 6 No. 16	$6.75
2	No. 10, 12, 14	4 No. 12 6 No. 14 2 No. 10 & 1 No. 14	8.25

BUCHANAN SPLICE CAPS, LOCKSEAL CLAMPING TOOLS AND INSULATORS


2001


2004


2004-S


C22A

For quick splicing of wire, merely load the Lok-Seal Clamping Tool with a Splice Cap, insert wires into cap and give one firm squeeze. You have a connection as permanent as you want.

No.	Description	For Wire Size	List Price Per 100
2001	Closed Splice Cap	2 No. 20 to 2 No. 14	$0.60
2004	Closed Splice Cap	2 No. 18 to 3 No. 12	1.50
2011	Closed Splice Cap	3 No. 12 to 3 No. 8	3.15
2004-S	Open-End Splice Cap		1.50
2011-S	Open-End Splice Cap		3.15

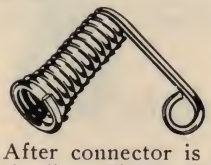
Pressure Tools

		List Price Each
C22A	Crimping Tool for 2001 Splice Cap	$9.00
C24	Crimping Tool for all other Splice Caps and Terminal Lugs	9.00

SCOTCHLOK

BRAND

ELECTRICAL SPRING CONNECTORS



For a Quick Splice — No tools needed, shake resistant. Strip end of wires to the length of the Scotchlok Spring Connector, screw connector on wirers until cut ends of wires are flush with small end of connector. Turning stem is notched for easy break-off. After connector is screwed on securely start taping by making the "pants" with No. 33 Scotch Electrical Tape until it extends half an inch beyond connector. Fold the extension over and wind the tape back over it.

Scotchlok Spring Connectors—List Price Per 100 .....**$3.50**

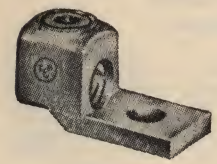
STAKONS




Specially designed tool closes insulation grip on A and B series insulation grip terminals and disconnect tips. Also installs A, B, C series Sta-Kons for wire sizes No. 22 through No. 10 AWG.

No.	Wire Size	Bolt Size	Unit	Std. Pkg.	List Price Per C
A18-10	22-20-18	10	100	1000	$2.95
B14-10	16-14	10	100	2000	2.95
C10-10	12-10	10	50	1000	4.00
D8-14	9-8-7	¼	25	500	8.00
E6-14	6-5	¼	20	200	8.80
F4-14	4-3	¼	20	200	12.00

Each.
WT-110M—Hand Tool for sizes 22 to 10 inc. **$3.50**
WT-111M—Hand Tool for sizes 22 to 10 inc. **3.00**
WT-115—Hand Tool for sizes 9 to 1 inc. **18.00**

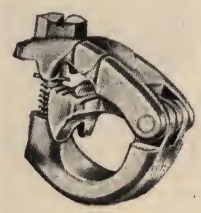


T & B LOCK-TITE LUGS

Single Bolt Hole

Fits any size of cable—solid, stranded, flexible, hemp-core, etc. Resists vibration. Has locking device which locks lug and keeps it from loosening. Will take welding cable.

No.	Cable Size	List Price Per 100
31003	14 Sol. to 8 Sol.	$ 68.00
31005	No. 8 Sol. to 4 Str.	68.50
31007	4 Sol. to 1 Str.	86.50
31009	1 Sol. to 2/0	136.00
31011	2/0 to 4/0	186.00
31013	4/0 to 300,000 C.M.	226.00
31015	300,000 C.M. to 500,000 C.M.	360.00
31017	500,000 C.M. to 750,000 C.M.	620.00
31019	750,000 C.M. to 1,000,000 C.M.	720.00

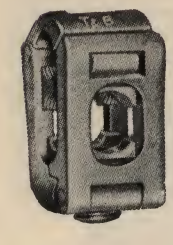


T & B HINTON JR. TEE—PARALLEL TAPS

Best tap where small branch is used with large main cable. Has lock washer to lock fitting tight. Vibration proof. Gives positive contact and creates tremendous pressure on the cable. Easy to tape.

No.	—CABLE SIZE— Main	Branch	List Price Per 100
35107	No. 8 to No. 4	No. 8 to No. 4	$116.00
35108	No. 8 to No. 4	No. 8 to No. 4	125.00
35109	No. 4 to No. 1	No. 14 to No. 4	138.00
35110	No. 4 to No. 1/0	No. 14 to No. 1	165.00
35111	No. 1/0 to 4/0	No. 14 to No. 4	195.00
35112	No. 1/0 to 4/0	No. 8 to No. 1	210.00
35113	No. 4/0 to 300 MCM	No. 14 to No. 4	235.00
35114	No. 4/0 to 300 MCM	No. 8 to No. 1	255.00
35115	No. 300 MCM to 500 MCM	No. 14 to No. 4	320.00
35116	No. 300MCM to 500 MCM	No. 8 to No. 1	390.00
35118	No. 500 MCM to 750 MCM	No. 14 to No. 1	490.00
35120	No. 750 MCM to 1000 MCM	No. 14 to No. 1	675.00

T & B "LOCK-TITE" TEE—PARALLEL TAPS



Six fittings do the work of 264 conventional type tee and parallel taps. Each tap is one piece. The tap opens wide to allow assembly to main and branch. Taps easily. The built-in locking disc means "Once made up tight, it stays up tight."

No.	—CABLE SIZE— Main	Branch	List Price Per 100
35003	1/0 to 4/0	No. 2 Sol. & Str. to No. 1	$221.00
35005	1/0 to 4/0	1/0 to 4/0	260.00
35007	4/0 to 300,000 CM	No. 2 Sol. & Str. to 1/0	260.00
35009	4/0 to 300,000 CM	2/0 to 300,000 CM	370.00
35011	300 to 500,000 CM	No. 2 Sol. & Str. to 3/0	435.00
35013	300 to 500,000 CM	4/0 to 500,000 CM	555.00
35015	No. 500 MCM to 750 MCM	No. 2 Sol. & Str. to 3/0	665.00
35017	No. 500 MCM to 750 MCM	No. 4/0 to 500 MCM	850.00
35019	No. 750 MCM to 1000 MCM	No. 500 MCM to 750 MCM	1030.00
35021	No. 750 MCM to 1000 MCM	No. 2 Sol. & Str. to 3/0	675.00
35023	No. 750 MCM to 1000 MCM	No. 4/0 to 500 MCM	825.00
35025	No. 750 MCM to 1000 MCM	No. 500 MCM to 750 MCM	945.00
35027	No. 750 MCM to 1000 MCM	No. 750 MCM to 1000 MCM	995.00

KEY WRENCHES (For use with "Lock-Tite" Taps)

No. Wrench	Fits Nos. of "Lock-Tite" Taps	List Price Per 100
30	35003, 35005, 35007, 35009, 35011	$10.00
50	35013	15.00



O.Z. TWO BOLT SERVICE TAP

TYPE "ST"
FOR COPPER TO COPPER SERVICE CONNECTIONS

No.	—Conductor Range— Main	Tap	List Price Each
ST 22	No. 2-2/0	No. 10-2/0	$0.70
ST 24	1/0-4/0	No. 10-4/0	1.10
ST 35	250 MCM-350 MCM	No. 10-350 MCM	2.20
ST 50	400 MCM-500 MCM	No. 10-500 MCM	2.55
ST 75	400 MCM-750 MCM	3/0-750 MCM	3.60
ST 92	500 MCM-1000 MCM	3/0-1000 MCM	5.10

MUELLER UNIVERSAL CLIPS

Screw or lug connections; no solder required; channel construction throughout; polarity indications + for positive, plain for negative.



No.	Description	Length of Clip	Spread of Jaws	List Price Each
	Clip with Lug, Steel			
11-A	100 amp., lead plated	6"	1¾"	$1.09
	Clip with Screw Steel			
21-A	50 amp., lead plated	4"	1¼"	.31
24-A	25 amp., lead plated	2⅞"	1"	.20
27	20 amp., cadmium plated	2 5/16"	⅝"	.14
	Solid Copper			
27-C	40 amp., Clip with screw	2 7/16"	⅝"	.25
	Clip with Screw Steel			
45	Pee-Wee, cadmium plated	1½"	⅜"	.09
48-B	Cadmium plated	2"	½"	.10
	Phosphor Bronze			
88	Pee-Wee phos. bronze Clip	1 11/16"	¼"	.23
	Clip with Screw Steel			
95	Cadmium plated	2"	½"	.10

Packed 10 in a box; 100 in a standard carton.

ALLIGATOR CLIPS

60	Steel, Solder Connection	2"	⅜"	$0.14
60-S	Steel, Screw Connection	2"	⅜"	.16
60-HS	Steel, Insulated Handle, Screw Connection	2¼"	⅜"	.26
60-CS	Solid Copper, Screw Connec.	2"	⅜"	.22
60-CHS	Solid Copper, Ins. Handle, Screw Connection	2¼"	⅜"	.30

CROCODILE CLIPS

85	Steel, Screw Connection, Cadmium Plated	2⅛"	⅜"	$0.16
85-C	Solid Copper, Brass Screw, Bronze Spring	2⅛"	⅜"	.26
85-T	Steel, Screw Connection, Cadmium Plated	2⅝"	⅜"	.36
88	Wee-Pee-Wee Phosphor Bronze Clip, Brass Screw	1 11/16"	¼"	.36
95	Clip with Screw, Steel, Cadmium Plated	2"	½"	.16

MUELLER UNIVERSAL CLIP INSULATORS



		List Price Each
13	Insulator for Clips 11 and 11-A	$1.26
23	Insulator for Clips 21 and 21-A	.70
26	Insulator for Clips 24 and 24-A	.50
29	Insulator for Clips 27 and 27-C	.34
35	Insulator for Clip 33	3.26
47	Insulator for Clips 45 and 45-C	.18
49	Insulator for Clips 48-B, 48-C, 50-C and 51-C	.22
74	7 MM. Insulator for Clip 95	.30
87	Insulator for Clips 85, 85-C and 85-T	.16
90	7 MM. Insulator for Clip 27	.34
93-P	Insulator for Clip 88	.10



WEDGE-ON LUGS

Will take wire sizes from No. 22 to No. 4 wire either solid or stranded. Is quickly installed. Permanent and sure solderless connection not affected by jolts, vibration, temperature changes, etc. Body is pure copper, white cadmium plated.

No.	Wire Size	List Price Per 100
18L100	No. 22 to No. 18 Solid and Stranded	$12.80
16L100	No. 16 Solid and Stranded	12.80
14L100	No. 14 Solid and Stranded	12.80
12L100	No. 12 Solid and Stranded	14.40
10L100	No. 10 Solid and Stranded	16.80
9L100	No. 19 Strands No. 22 Control Wire	19.20
8L100	No. 8 Solid and Stranded	20.75
6L100	No. 6 Stranded	24.00
6SL100	No. 6 Solid	24.00
4L100	No. 4 Stranded	27.25
4SL100	No. 4 Solid	27.25

WEDGE-ON WIRE SPLICERS



A two-way solderless connector. Adapted to line, junction box, motor lead, outlet box and service entrance splices. Round, smooth, easy to handle. Splicer has great holding strength, is easy to tape.

No.	Wire Size	Holding Strength Stranded	Holding Strength Solid	List Price Per 100
16C	No. 16 Solid and Stranded	100 lbs.	100 lbs.	$23.75
14C	No. 14 Solid and Stranded	100 lbs.	110 lbs.	23.75
12C	No. 12 Solid and Stranded	210 lbs.	160 lbs.	27.50
10C	No. 10 Solid and Stranded	275 lbs.	195 lbs.	27.50
9C	No. 9 Solid and Stranded	325 lbs.	350 lbs.	27.50
8C	No. 8 Solid and Stranded	440 lbs.	455 lbs.	37.50
6C	No. 6 Solid and Stranded	715 lbs.	705 lbs.	45.00
4C	No. 4 Solid and Stranded	925 lbs.	830 lbs.	45.00

"WEDGE-ON" TOOLS



For use with T&B "Wedge-on" plugs, splicers and joints.

A tool is supplied free with the initial order for "Wedge-Ons."

No.	For Lug Sizes	Color of Handles	List Price Each
21000	Nos. 8 to 16, inclusive	Green	$5.00
21001	Nos. 8, 6 and 4	Red	5.00
21004	Nos. 22, 18, 16 and 14	Blue	5.00

T AND B LUGIT



LC6

Two sizes, handles twelve wires sizes. Approved by Underwriters. Tongue of pure copper, body and saddle of high conductivity bronze. One piece assembly—will not come apart. Installed with screw driver. Floating saddle gives even pressure and maximum contact. Overlapping saddle assures inclusion of all strands. Tinned finished to prevent corrosion.

No.	Wire Size	List Price Per 100
LC6	Takes 14, 12, 10, 8 Wire	$8.00
LF1	Takes 8, 6, 4 Wire	10.00



WEDGE SOLDER LUGS

Heavy duty soldering lugs made of high quality pressed copper. Contact surfaces are smooth and flat for maximum conductivity—low resistance. Lugs are bright and clean—no sharp edges or burrs.

Amp. Rating N.E.C.	Size	Max.—B. & S. (A.W.G.) Stranded Wire	Std. Ctn.	List Price Per C
25	3/16	10	250	$ 4.26
35	1/4	8	200	5.02
50	5/16	6	200	7.72
70	3/8	4	125	8.64
90	7/16	2	100	11.80
125	1/2	0	100	15.30
150	9/16	00	100	19.68
175	5/8	000	100	27.18
225	11/16	0000	50	33.98
250	13/16	250,000 CM	25	66.94
325	15/16	400,000 CM	Bulk	99.36
362	1	450,000 CM	Bulk	125.28
400	1 1/16	500,000 CM	Bulk	155.96
450	1 1/8	600,000 CM	Bulk	165.02
550	1 5/16	800,000 CM	Bulk	261.36
650	1 7/16	1,000,000 CM	Bulk	292.90
850	1 3/4	1,500,000 CM	Bulk	450.20
1050	2 1/16	2,000,000 CM	Bulk	825.98





SCREW-TITE (SOLDERLESS) LUGS

Ideal "Screw-Tite" Lugs are quickly and securely attached with screw driver or wrench.

One Hole Type—Square End

No.	Amp.	Max.-Min. Wire Size (B&S) (AWG)	Std. Ctn.	List Price Per 1000
29-051	35	8 to 14	250	$ 57.38
29-052	70	6 to 4	200	73.32
29-053	125	2 to 0	100	114.10
29-054	225	00 to 0000	25	403.13
29-055	400	400,000 to 500,000-C.M.	10	1374.53
29-056	650	700,000 to 1,000,000-C.M.	4	2583.00
29-057	850	1,500,000-C.M.	4	4500.00
29-058	1050	2,000,000-C.M.	4	5500.00

T AND B LOCK-TITE TWO-WAY CONNECTORS



Cast Copper Connector has stop in center so cables are properly gripped. Will tape up very nicely.

No.	Cable Size	List Price Per 100
32507	4 Sol. to 1 Str.	$123.00
32509	1 Sol. to 2/0	186.00
32511	2/0 to 4/0	275.00
32513	4/0 to 300,000 C.M.	380.00
32515	300,000 C.M. to 500,000 C.M.	645.00
32517	500,000 C.M. to 750,000 C.M.	1050.00
32519	750,000 C.M. to 1,000,000 C.M.	1240.00

KEY WRENCHES

For use with Lock-Tite Lugs and Connectors, all sizes.

No.	Fits Lock-Tite Lugs	List Price Each
30	31007, 32007, 31009, 32009, 31011, 32011.....	$0.20
50	31013, 32013, 31015, 32015, 31017, 32017, 31019, 32019	.30

BUSS FUSES

BUSS—PLUG FUSES—ECONOMY

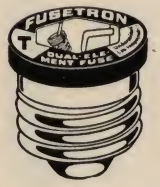


Packed five in a colorful carton that carries complete information as to why fuses blow and what to do when they blow. Carry Underwriters' Laboratories inspection label.

No.	W3	W6	W8	W10	W15	W20	W25	W30
Amps. ...	3	6	8	10	15	20	25	30
Shelf Pkg.	100	100	100	100	100	100	100	100
List Price Each	$0.08	$0.08	$0.08	$0.075	$0.075	$0.075	$0.075	$0.075

BUSS PLUG FUSETRONS

Symbol-T—15 to 30 Ampere



Packed four in a colorful carton that carries complete information as to why fuses blow and what to do when they blow. Carry Underwriters' Laboratory inspection label.

Amps.	15	20	25	30
Shelf Pkg.	100	100	100	100
List Price Each..	$0.10	$0.10	$0.10	$0.10

BUSS PLUG FUSETRONS

0 to 14 Ampere

Used to protect motors or apparatus against burnout. Have Edison base, hence insurance and inspection authorities and Underwriters' Laboratories.

No.	T1	T1¼	T1 6/10	T2	T2½	T3 2/10
Amps. ...	1	1¼	1 6/10	2	2½	3 2/10
Each	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20

No. ..	T4	T5	T6¼	T8	T10	T12	T14
Amps.	4	5	6¼	8	10	12	14
Each	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20

BUSS FUSTATS WITH TYPE S BASE

15 to 30 Amp. for Circuit Protection



Prevent loss of protection. Can't be replaced with pennies or slugs and are practically impossible to bridge with tinfoil, wire or any other material.
Also stop dangerous practice of using over-size fuses. 20 amp. size will not fit in 15 amp. adapter, etc. Packed four in a carton.



Adapter

FUSTAT

Amp.	—Fustat— No.	Shelf Pkg.	List Pr. Each	—Adapter— No.	List Pr. Each
15	S15	100	$0.125	SA15	$0.06
20	S20	100	0.125	SA20	0.06
25	S25	100	0.125	SA25	0.06
30	S30	100	0.125	SA30	0.06

BUSS FUSTATS 0 TO 14 AMPERE

To protect against burn-out motors and apparatus of voltages up to 125 from such things as dry bearings, overloads, etc.

Fustat Amp.	Fustat No.	List Pr. Each	Fustat Amp.	Fustat No.	List Pr. Each	Adapters No.	List Pr. Each	No.	List Pr. Each
1	S1	$0.20	5	S5	$0.20	SA1	$0.075	SA5	$0.075
1¼	S1¼	.20	6¼	S6¼	.20	SA1¼	.075	SA6¼	.075
1 6/10	S1 6/10	.20	8	S8	.20	SA1 6/10	.075	SA8	.075
2	S2	.20	10	S10	.20	SA2	.075	SA10	.075
2½	S2½	.20	12	S12	.20	SA2½	.075	SA15	.075
3 2/10	S3 2/10	.20	14	S14	.20	SA3 2/10	.075	SA20	.075
4	S4	.20				SA4	.075		

BUSS—ONE-TIME FUSES—ECONOMY

Non-renewable



1 to 60 Amps.



70 to 600 Amps.

Amps.	250 Volt—Symbol NON Ctn. Qty.	List Price Each	Amps.	600 Volt—Symbol NOS Ctn. Qty.	List Price Each
1 to 30	10	$0.15	1 to 30	10	$0.50
35 to 60	10	.30	35 to 60	10	.80
70 to 100	5	.90	70 to 100	5	1.80
110 to 200	1	2.00	110 to 200	1	3.50
225 to 400	1	3.60	225 to 400	1	7.00
450 to 600	1	5.50	450 to 600	1	10.00

BUSS—RENEWABLE FUSES—ECONOMY



3 to 60 Amps.



70 to 600 Amps.

Amps.	250 Volt—Symbol REN Ctn. Qty.	List Price Each	Amps.	600 Volt—Symbol RES Ctn. Qty.	List Price Each
3 to 30	10	$0.40	3 to 30	10	$1.00
35 to 60	10	.80	35 to 60	10	1.60
70 to 100	5	1.80	70 to 100	5	3.20
110 to 200	1	4.00	110 to 200	1	7.00
225 to 400	1	7.20	225 to 400	1	14.00
450 to 600	1	11.00	450 to 600	1	20.00

BUSS—RENEWAL LINKS—ECONOMY



3 to 8 Amps.



10 to 30 Amps.

Amps.	250 Volt—Symbol LKN Ctn. Qty.	List Price Each	Amps.	600 Volts—Symbol LKS Ctn. Qty.	List Price Each
3 to 30	20	$0.02	3 to 30	20	$0.05
35 to 60	20	.04	35 to 60	20	.08
70 to 100	10	.09	70 to 100	10	.18
110 to 200	5	.20	110 to 200	5	.35
225 to 400	5	.36	225 to 400	5	.70
450 to 600	2	.55	450 to 600	2	1.00

BUSS FUSETRONS—DUAL ELEMENT FUSES



1 to 60 Amps.



70 to 600 Amps.

Amperes	Carton Quantity	250 Volt—Symbol FRN List Price Each	600 Volt—Symbol FRS List Price Each
1/10, 15/100, 2/10, 3/10, 4/10, ½, 6/10, 8/10, 1, 1⅛, 1¼, 1-4/10, 1-6/10, 1-8/10, 2, 2¼, 2½, 2-8/10, 3-2/10, 3½, 4, 4½, 5, 5-6/10, 6¼, 7, 8, 9, 10	10	$0.30	$0.75
12, 15, 17½, 20	10	.30	.75
25, 30	10	.35	.85
35, 40, 45, 50, 60	10	.70	1.50
70, 80, 90, 100	5	1.65	3.20
110, 125, 150, 175, 200	1	3.60	6.25
225, 250, 300, 350, 400	1	6.50	12.50
450, 500, 600	1	10.00	18.00

ECONOMY RENEWAL FUSES



No.	List Price Each	No.	List Price Each
PF 1068	$0.50	PR 6810	$0.02
PF 1568	.50	PR 6815	.02
PF 2068	.50	PR 6820	.02
PF 2568	.50	PR 6825	.02
PF 306	.50	PR 6830	.02



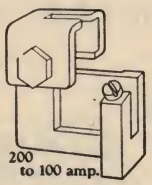
BUSS FUSE REDUCERS



600 V.
263



663



600 V.
2621

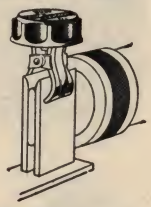
Make it possible to use ordinary or Fusetron fuses of a size smaller than the fuse clips are intended to hold. Fit in any panel or switch as reducers take up no more space than would a fuse of a size to fit clips.

Poor contact troubles are entirely eliminated because these reducers provide clamp contact throughout. Reducers fit any form of clip, either the spring type or clamp type. Packed—one pair in a carton.

No.	Volts	Amperes	List Price Per Pair	No.	Volts	Amperes	List Price Per Pair
263	250	60 to 30	**$0.70**	**663**	600	60 to 30	**$0.80**
213	250	100 to 30	**1.30**	**216**	600	100 to 30	**.95**
216	250	100 to 60	**.95**	**616**	600	100 to 60	**1.75**
226	250	200 to 60	**2.90**	**626**	600	200 to 60	**4.75**
2621	250	200 to 100	**1.90**	**2621**	600	200 to 100	**1.90**
2642	250	400 to 200	**2.90**	**2641**	600	400 to 200	**2.90**

BUSS CLIP-CLAMPS





Insure good contact between clips and ordinary or Fusetron fuses. Prevent needless blowing of fuses by eliminating heating from poor contact that often causes fuses to blow. Reduce needless destruction of fuse-cases by preventing poor contact from burning up the fibre tube and destroying the fuse. Built for hard service. To prevent corrosion, all steel parts are heavily cadmium plated.

No.	Size of Clamp		Ctn. Qty.	List Price Each
1	0-30 Amp.	250 Volt	12	**$0.60**
2	31-60 Amp. / 0-30 Amp.	250 Volt / 600 Volt	12	**.80**
4	31-60 Amp.	600 Volt	12	1.05
5	61-100 Amp.	250 or 600 Volt	12	1.00
6	101-200 Amp.	250 or 600 Volt	6	1.50
7	201-400 Amp.	250 or 600 Volt	6	2.00
8	401-600 Amp.	250 or 600 Volt	6	2.90

BUSS FUSTAT BOX UNIT COVER

With Plug-In Receptacle or Switch if Desired


Switch with Fustat


Plug-In Receptacle with Fustat


Round Box Cover 4″


Square Box Cover 4″

An outlet or switch box plus a Futstat will prevent burnout of motors on home, farm, office, factory appliances and equipment.

Units with switch for A.C. motors only—½ H.P. and smaller.

Units without switch for any motor—¾ H.P. and smaller.

Prevent costly repair bills—protect coils, transformers and solenoids against burnouts.

Fustats and adapters are **not included** with Box-Cover Units, order them separately, Fustat Holder only.

Symbol		List Price Each
	With Switch	
SSU	on 2¼ inch cover for Handy box	**$1.15**
SSW	on 2¾ inch cover for Switch box	**1.15**
SSX	on 4 inch cover for Round box	**1.25**
SSY	on 4 inch cover for Square box	**1.25**
	With Plug-In Receptacle	
SRU	on 2¼ inch cover for Handy box	**1.00**
SRW	on 2¾ inch cover for Switch box	**1.00**
SRX	on 4 inch cover for Round box	**1.10**
SRY	on 4 inch cover for Square box	**1.10**
	Fustat Holder Only	
SOU	on 2¼ inch cover for Handy box	**.60**
SOW	on 2¾ inch cover for Switch box	**.60**
SOX	on 4 inch cover for Round box	**.70**
SOY	on 4 inch cover for Square box	**.70**

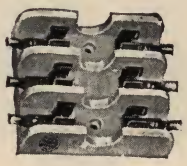
CARTRIDGE TYPE CUTOUTS



Single Pole—250 Volt

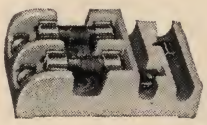
No.	Amp.	Ctn. Qty.	List Price Each
20675	30	5	**$0.76**
20685	60	5	**1.18**
20695	100	1	**2.80**

Single Pole—600 Volt



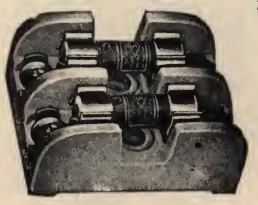
20735	30	1	**$1.16**
20745	60	1	**1.90**

Two Wire (Double Pole) 250 Volt



No.	Amp.	Description	Ctn. Qty.	List Pr. Each
2077	30	Main Line	5	**$1.04**
2078	60	Main Line	1	**2.54**
2101	100	Main Line	1	**5.12**
2081	30	Single Branch	1	**1.52**
2082	60	Single Branch	1	**3.04**
2085	30	Double Branch	1	**2.90**
2086	60	Double Branch	1	**5.80**

Three Wire (Triple Pole) 250 Volt



2079	30	Main Line	5	**$1.44**
2080	60	Main Line	1	**3.48**
2102	100	Main Line	1	**7.34**
2083	30	Single Branch	1	**2.46**
2084	60	Single Branch	1	**5.44**
20835	30	Double Branch	1	**4.30**
20845	60	Double Branch	1	**9.56**

Three Wire Line with Two Wire Branches—250 Volt

2087	30	Double Branch	1	**$4.30**
2038	60	Double Branch	1	**7.72**

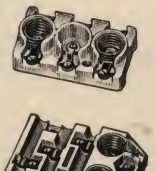
PLUG FUSE CUTOUTS, SOLID NEUTRAL

30 Amp., 125 Volts, Main Line



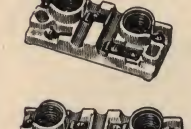
Plug Type Cutouts

No.	Wire		Ctn. Qty.	List Price Each
2569	2	Single Pole Main Line	5	**$0.42**
2965	2	Wire Main Line	5	**.62**
1935	2	Wire Single Branch	5	**.76**
2587	2	Wire Double Branch	5	**1.22**
2199	3-2	Wire Double Branch	5	**1.46**
2165	3	Wire Main Line	5	**.94**
2135	3	Wire Double Branch	5	**2.34**
		Unfused Neutral		
2965-0	2	Wire Main Line	5	**$0.56**
1935-0	2	Wire Single Branch	5	**.64**
2587-0	2	Wire Double Branch	5	**1.00**
2199-0	3-2	Wire Double Branch	5	**1.16**
2165-0	3	Wire Main Line	5	**.94**
2135-0	3	Wire Double Branch	1	**2.34**



Black Molded Composition Single Pole—250 Volt

No.	Amps.	Ctn. Qty.	List Price Each
1067	30	5	**$0.62**
1068	60	5	**.98**
1069	100	1	**3.76**



Single Pole—600 Volt

1023	30	5	**$0.92**
1074	60	5	**1.40**

Slate Single Pole—250 Volt

2070	200	1	**$4.44**
2071	400	1	**13.12**
2072	600	1	**17.28**



Slate Single Pole—600 Volt

2075	100	1	**$3.84**
2076	200	1	**5.48**
2095	400	1	**14.86**
2096	600	1	**18.72**

MONOWATT COUNTER DEVICES

PLASTIC ATTACHMENT



1110

Makes repairing electric cords for anyone. No terminal screws, no wire stripping.

Packaged on attractive card for effective display on counter. 10A-250V, 15A-125V.

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
1110-1	Brown	25	250	$11.00
1110-2	Ivory. Same	25	250	13.00



No. 1111-1—Brown Quick Clamp Plugs, 3 on a display. List price per 100 cards $33.00

No. 1111-2—Ivory. Same. List price per 100 cards $39.00

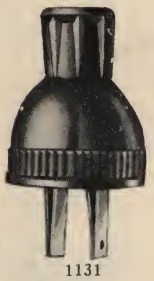


1115



1120

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
1115-1	Brown flat plug, same as 1125 but without grip extension	25	250	$7.50
1115-2	Ivory. Same	25	250	9.00
1125-1	Brown grip plug, 10A-250; 15A-125	25	250	9.00
1125-2	Ivory. Same	25	250	11.00
1718-3	Black jumbo rubber cord connectors (not shown)	25	250	34.00
1120-1	Brown grip plug, large fluted extension for easy removal, wall outlet. 10A-250, 15A-125V	25	250	10.00
1120-2	Ivory. Same	25	250	11.50



1131

RUBBER ATTACHMENT PLUGS

1131-1	Black grip plug. Round for attachment to cord which receive rough usage, 10A-250V, 15A-125V	25	250	$11.50
1134-3	Black jumbo grip plug for "SJ" heavy duty cord, 10A-250V, 15A-125V	25	250	16.00

PLASTIC PLUG BODIES



1141

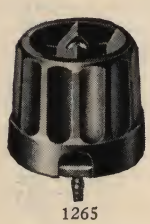
1141-1	Brown plug body. One-piece plastic housing will not come apart. Eliminates paper washer and prevents collapse of the contact point when plug body is screwed tightly into a socket, 660W-250V	25	250	$9.50
1141-2	Ivory. Same		Temp. Disc.	



1245

SURFACE OUTLETS

1245-1	Brown. Angular triple opening for through wiring. Screws to wall or baseboard	25	500	$15.50
1245-2	Ivory. Same	25	500	20.50



1265

1265-1	Brown. Single	25	250	11.00
7265-2	Ivory. Same	25	250	15.00

PLUGS AND PLUG BODIES



SURFACE OUTLETS

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
1240-1	Brown. Quick clamp outlet. Two mounting screws for attachment to wall or baseboard. 10A-250V, 15A-125V	10	100	$29.00
1240-2	Ivory. Same			35.00

SURFACE TOGGLE SWITCHES



1331

1331-1	Brown. Single. Plastic construction and stronger than porcelain. Side or back wired. Side wiring done by breaking through convenient knockouts. 5A-250V, 10A-125V	10	100	$33.00
1332-1	Brown. Three-way, 5A-250V, 10A-125V	10	100	44.00



1351

1351-1	Brown feed through switch. Small, compact. Each switch mounted on a display which gives instructions and suggested uses. 5A-250V, 10A-125V	10	100	34.00
1351-2	Ivory. Same	10	100	40.00



1362

1362-1	Brown push button canopy switch with threaded neck, lock nut and 6" leads. No. 18 fixture wire. 1A-250V, 3A-125V	10	100	25.00

SOCKET ADAPTERS



1701



1703



1706



1707

1701-1	Brown Edison socket adapter to convert an ordinary outlet into a lamp socket. 660W-250V	10	100	$14.00
1701-2	Ivory. Same	10	100	17.00
1703-1	Brown twin light. Used to convert a single socket to a double socket. 660W-250V		Temp. Disc.	
1703-2	Ivory. Same		Temp. Disc.	
1706-1	Brown kitchen tap. New, safer strip contact. Eliminate brass screw shell. 660W, 250V	10	100	20.00
1706-2	Ivory. Same	10	100	25.00
1707-1	Brown kitchen current tap with pull chain control. 230W-250V. New, safer strip contact eliminates brass screw shell	10	100	35.00
1707-2	Ivory. Same	10	100	41.00

MONOWATT COUNTER DEVICES

QUICK CLAMP DEVICES

Now anyone can wire—no tools—no fuss—easy as A-B-C. For greater Quick Clamp sales, feature all Quick Clamp devices together.



1710

No. 1710-1—Brown. Quick clamp single tap. 10A-250V, 15A-125V. List price per 100 ..... **$15.00**

No. 1710-2—Ivory. Same. List price per 100 ..... **17.00**
Packed ctn. 10—std. pkg. 100.



No. 1711-1—Brown. Quick clamp triple tap. Three outlets ready for use in just a few seconds. 10A-250V, 15A-125V. List price per 100..... **$22.00**

No. 1711-2—Ivory. Same. List price per 100 ..... **25.00**
Packed ctn. 10—std. pkg. 100.



1712

No. 1712-1—Brown. Quick clamp flap tap. 10A-250V, 15A-125V. List price per 100..... **$24.00**

No. 1712-2—Ivory. Same **30.00**
Packed ctn. 10—std. pkg. 100.



No. 1713-1—Brown. Quick clamp cord splicer. 10A-250V, 15A-125V. List price per 100 ..... **$19.00**

No. 1713-2—Ivory. Same. List price per 100 ..... **23.00**
Packed ctn. 10—std. pkg. 100.

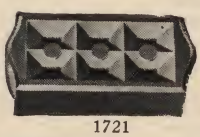
TRIPLE TAPS



1719

1719-1—Brown. Service block designed for attaching to a cord and not just a modification of a cube tap. 10A-250V, 15A-250V..... Tem. Dis.

1719-2—Ivory. Same. .....T. Dis.



1721

1721-1—Brown. Triple outlet table tap. 10A-250V, 15A-125V. **$21.00**

1721-2—Ivory. Same **27.00**



1736

1735-1—Brown. Cube tap with reversed prongs. 10A-250V, 15A-125V **15.00**

1735-2—Ivory. Same **19.00**

1736-1—Brown. Cube tap with reversed hold-tight prongs .....T. Dis.

1736-2—Ivory. Same.....T. Dis.



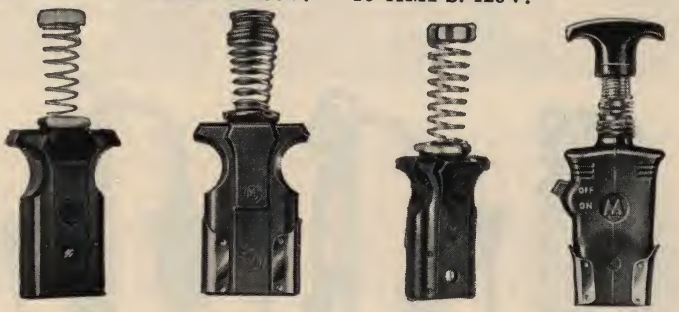
1738

1738-1—Brown. Triple tap with prongs. 10A-250V, 15A-125V. .....T. Dis.

1738-2—Ivory. Same. Packed ctn. 10—std. pkg. 100 .....T. Dis.

HEATER CONNECTORS

CONNECTORS MOLDED OF HEAT-RESISTANT ASBESTOS COMPOUND
5 AMPS.-250V. — 10 AMPS.-125V.



1801 1803 1818 1828-3

1801-3—Black grip connectors. Switchless with cord spring	10	100	**$16.00**
1803-3—Black armored grip connector. Switchless with cord spring	10	100	**17.00**
1818-3—Black miniature grip connector. Switchless with cord spring	10	100	**16.00**
1828-3—Black armored 1000 watt switch connector with cord spring and monodull.....	10	100	**46.00**



1820-3

Black watt top control switch. Connector with cord spring. Side outlet switch on top.

No.	Ctn.	Std. Pkg.	List Price Per 100
1820-3	10	100	$41.00

IMPROV-A-LITE

Converts Table Lamps to use R-40 Indirect 3-Lite Bulb.
Quickly wired in three steps.
Makes old lamps modern looking. New bulb gives softer . . . brighter WHITE INDIRECT light in choice of three intensities. 150-100-50 watts.

2040-2 Improve-A-Lite Lamp. Includes factory-wired 3-way plastic socket, new wide harp, 8 ft. No. 18 POT cord and Quick Clamp Plug. Packaged on attractive display card. Ivory. (Bulb not included with kit.)
List price per kit **$169.00**

2041-0 Improv-A-Lite Counter Demonstrator. 11″ x 14″. Easel back. Three colors—red, yellow, black. Improv-A-Lite unit attached. Insert bulb from stock and plug into outlet.
List price each **169.00**





2364-0

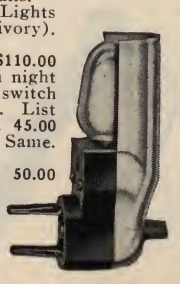
TWIN (2) NIGHT LIGHTS

Attractive "show case" gift box sells two night lights at a time—a soft blue for bedroom and nurseries, bright ivory light for sick rooms, stairs and halls.

No. 2364-0—Twin Lights (one blue and one ivory). List price per 100 ..... **$110.00**

No. 2363-1—Brown night with turn-knob switch and 7 watt bulb. List price per 100..... **45.00**

No. 2363-2—Ivory. Same. List price per 100 ..... **50.00**



MONOWATT COUNTER DEVICES

HEATER CORD SETS

Cord Springs threaded to outside of connector to reduce possibility of shorting at point of most wear. Connectors permanently assembled at the factory—cannot work loose. New large grip cap permanently sealed on cord.



1901



1924



1936



1918


1933



1960

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
1901-3	—6′ No. 18-2, 3000 cycle HPD heater cord. Switchless connection	5	50	**$63.00**
1924-3	—6′ No. 18-2, 3000 cycle HPD heater cord. Switchless connection	5	50	**79.00**
1936-3	—7′ No. 18-2000 cycle HPD heater cord with armored switch connector	5	50	**100.00**
1932-3	—7′ No. 18-2, 10,000 cycle HPD heater cord. Armored switch connector with cord spring and monopoll	5	50	**114.00**
1918-3	—6′ No. 18-2, 3000 cycle HPD heater cord with miniature switchless connector	5	50	**66.00**
1919-3	—6′ No. 18-2, 3000 cycle neoprene heater cord with miniature switchless connector	5	50	**66.00**
1933-3	—6′ No. 18-2, 3000 cycle HPD heater cord with outlet switch connector	5	50	Temp. Dis.
1960-3	—6′ No. 18-2 3000 cycle HPD heater cord with eyelets and wrapped leads	5	50	**62.00**

Replacement Cord Sets With Stripped Conductors and Plug



No.	Description	List Price Per 100
2071-1	—6 ft. No. 18 POSJ Rubber Cord. Brown	**$32.00**
2071-2	—6 ft. No. 18 POT Plastic Cord. Ivory	**32.00**
2073-1	—9 ft. No. 18 POSJ Rubber Cord. Brown	**41.50**
2073-2	—9 ft. No. 18 POT Plastic Cord. Ivory	**41.50**
2076-1	—15 ft. No. 18 POSJ Rubber Cord. Brown	Temp. Dis.
2076-2	—15 ft. No. 18 POT Plastic Cord. Ivory	Temp. Dis.

EXTENSION CORD SETS

Service Block Extension Cord Sets



2000 Series


2020 Series

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
2001-1	—Brown 6′ No. 18 POSJ rubber cord	5	50	**$47.50**
2001-2	—Ivory 6′ No. 18 POT plastic cord	5	50	**53.00**
2003-1	—Brown 9′ No. 18 POSJ rubber cord	5	50	**57.00**
2003-2	—Ivory 9′ No. 18 POT plastic cord	5	50	**63.00**
2005-1	—Brown 12′ No. 18 POSJ rubber cord	5	50	**68.00**
2005-2	—Ivory 12′ No. 18 POT plastic cord	5	50	**76.00**
2006-1	—Brown 15′ No. 18 POSJ rubber cord	5	50	T. Dis.
2006-2	—Ivory 15′ No. 18 POT plastic cord	5	50	T. Dis.
	Two Outlet Table Tap Extension Cord Sets			
2022-1	—Brown 9′ No. 18 POSJ rubber cord	5	50	**$62.00**
2022-2	—Ivory 9′ No. 18 POT plastic cord	5	50	**68.00**
2025-1	—Brown 15′ No. 18 POSJ rubber cord	5	50	T. Dis.
2025-2	—Ivory 15′ No. 18 POT plastic cord	5	50	T. Dis.
	Three Outlet Table Tap Extension Cord Sets			
2033-1	—Brown 9′ No. 18 POSJ rubber cord	5	50	**$72.00**
2033-2	—Ivory 9′ No. 18 POT plastic cord	5	50	**78.00**
2036-1	—Brown 15′ No. 18 POSJ rubber cord	5	50	T. Dis.

SOCKET EXTENSION CORD SETS



2084-4



2066-2

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
2048-4	—Brown 9′ No. 18 POSJ rubber cord with brass push-through pendant cap socket and brown cap	5	50	**$91.00**
2050-4	—Same, except 18 ft.	5	50	T. Dis.
2058-2	—Ivory 9′ No. 18 POT plastic cord, with plastic push-through side outlet socket and ivory cap	5	50	**93.00**
2058-4	—Same with brown POSJ and brass socket	5	50	**93.00**
2066-2	—Ivory 9′ No. 18 POT plastic cord with plastic pull chain side outlet socket and ivory cap	5	50	**100.00**
2066-4	—Same, with brown POSJ cord and brass socket	5	50	**100.00**


2098-1

2098-1 Utility light. 25 ft. brown ribbed No. 18 5J cord, brown plastic handle with push-through switch and outlet, snap-open reflector guard with swivel hook, molded-on cap.

No. 2098-1—Ctn. 5, Std. Pkg. 50. List price per 100 **$300.00**

GENERAL ELECTRIC REMOTE CONTROL WIRING SYSTEM



RT-I TRANSFORMER

Mounts on 3¼", 3½" or 4" octagon or 4" standard square outlet boxes. 10" pigtail leads for 125 volt connection. Locking type screw terminals for low-voltage connections. Rating: 35 volt—amperes—secondary—24 volts (open circuit)—primary—125 volts, 60 cycles.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
RT1	Transformer	5	1	$660.00



RELAYS AND SWITCHES





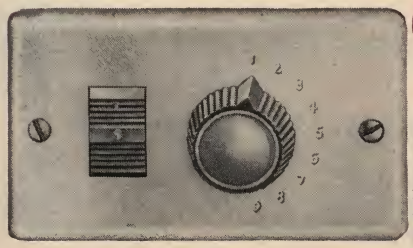
RR2 RSF1 RSS1

RR2—Relay. Split-coil design. One coil closes at 125-volt circuit—the other opens it. Operates on 24-volts. Has two 7" No. 14 AWE Flamenod leads for 125-volt connections and for the 24-volt connections.

Switches RFS1, RSS1—Compact, attractively styled plastic for remote-control wiring system. Normally open, single-pole, double-throw momentary contact type. Can be connected in parallel.

No.	Description	Rating Amp.	Vts.	Std. Ctn.	Pkg.	List Price Per 100
RR2	Relay ⅛ h.p., 15A., 125V., A-C; 5A., 250V., A-C. Suitable for use with tungsten filament and fluorescent lamp loads			5	10	$330.00
RR1	Relay. Same as RR2 except with binding screw terminals for 24-volt connections			5	10	330.00
RFS1	Flush switch, buff plastic	3	25	10	20	39.60
RSS1	Surface switch. Ivory and buff plastic	3	25	10	20	66.00

For controlling up to nine circuits simultaneously or individually. Combination of ON-OFF contrlo switch, circuit selector. Fits standard mounting for flush deviles. Depth, 1 inch. Complete matching wall lpates.



MASTER SELECTOR SWITCH

For controlling up to nine circuits simultaneously or individually. Combination of ON-OFF control switch, circuit selector. Fits standard mounting for flush devices. Depth, 1 inch. Complete matching wall plates.

RMS1—Master selector switch	3	25	1	5	$550.00

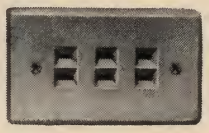
REMOTE CONTROL WALL PLATES



RP1 RP2 RP3

Ivory-colored wall plates to fit the RFS1 remote-control switch. Furnished complete with mounting straps and screws.

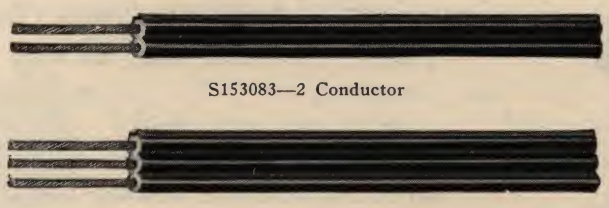
No.	Description	Ctn.	Std. Pkg.	List Price Per 100
RP1	1 gang plate for single switch	10	20	$27.50
RP2	1 gang plate for two switches	10	20	27.50
RP3	3 gang plate for three switches	10	20	27.50



TRIPLE OUTLET AND PLATE

RO-1—Common ground, common feed	15	125	10	100	$60.50
	10	250	10	100	60.50
RO-2—Common ground, separate feed	15	125	10	50	66.00
	10	250	10	50	66.00

FLAMENOL REMOTE CONTROL WIRE



S153083—2 Conductor

S153083—3 Conductor

Thermoplastic-insulated wires for low voltage remote-control wiring systems. Stranded copper conductors with 64 inch ivory-colored thermoplastic insulation on both the 2 and 3 conductor wire. There is a double rib on one of the outer conductors for easy circuit identification.

No.	Strds.	Ins.	O.D. in In.	Std. Pkg.	List Price Per 1000 ft.
S153083	2	1/64"	.08x.17	500 ft.	$12.50
S153083	3	1/64"	.08x.26	500 ft.	18.00
S153083	3	3/64"	.16x.41	500 ft.	35.80

INSULATED STAPLES

No.	Std. Pkg.	Ctn.	List Price Per 100
2540-2	200 boxes	20 boxes	$11.00





REMOTE CONTROL UTILITY UNIT

Combination relay-transformer in a weatherproof aluminum die cast case. Recommended for controlling yard lights mounted on utility pole on farms. Also for use in controlling attic ventilators, hen house lighting, heating, etc.

No.	Description	Rating	Std. Pkg.	Ctn.	List Price Per 100
RU1	Utility unit	⅛ h.p. 15 amp. 125 volts A.C. or 5 amp. 250 volts A.C.	1	1	$1485.00

H & H WIRING DEVICES

INTERCHANGEABLE SOCKET BODIES



250 Volts

No.	Description	Std. Pkg.	List Price Per 100
XA	Key, 250W	250	**$44.90**
XC	Keyless, 660W	250	**35.10**
XD	Pull, 250W	250	**55.50**
XW	Push, 660W	250	**48.80**









Current Taps in Multiple

59	Pull, 660W, 250V	10	**$141.00**

PULL SOCKET SWITCHES, SINGLE POLE



3 Amps., 125 Volts; 1 Amp., 250 Volts

68	Bottom Pull	20	**$123.00**

INTERCHANGEABLE SOCKET CAPS



⅛-Inch

XI	Female Thread	250	**$11.70**



⅛-Inch

X12	90° Angle Cap	50	**$45.90**



X2	¼" Female Thread	25	**35.10**



X3	⅜" Female Thread	100	**19.50**



X4	½" Female Thread	50	**37.10**

Pendent



X17	$\frac{13}{32}$-Inch Cord Hole	250	**$10.70**



X62	⅜ to ½ Inch Cord Grip	100	**33.20**



Adapter Cap with Wire Leads

BO	Screw Shell and Interchangeable Catch	50	**$85.00**

INTERCHANGEABLE SOCKET BASES



Porcelain

No.	Description	Std. Pkg.	List Price Per 100
W	Cleat	100	**$53.50**



NA	Small, Slotted	100	**42.00**



N	Small, Concealed	100	**42.00**



H	Angle, Concealed	100	**54.50**

ELECTROLIER SOCKET BODIES



X33	Keyless Body, Short Shell	250	**$34.20**
X34	Push Body	250	**44.90**



XEA	⅛-Inch Cap	250	**12.70**

"5500" LINE SOCKETS



Standard Size Pull

5500	With ⅛" Cap, 250W	250	**$64.50**
5501	Pendent	250	**63.50**



Key, 250 Watts

5520	With ⅛" Cap	250	**$47.80**
5521	Pendent	250	**46.80**



Keyless, 660 Watts

5540	With ⅛" Cap	250	**$40.00**
5541	Pendent	250	**38.10**

INTERCHANGEABLE PORCELAIN SOCKET BODIES



250 Volts

40	Key, 250W	100	**$54.50**



41	Keyless, 660W	100	**38.10**



42	Pull, 250W, 7" Ins. Chain	100	**95.60**



45	Push, 660W, 2" Button	100	**95.50**

INTERCHANGEABLE PORCELAIN SOCKET CAPS



PM	Pendent	100	**$26.40**



PE	Cord Grip Pendent, ¼" to ½"	100	**51.50**

H & H WIRING DEVICES

INTERCHANGEABLE PORCELAIN SOCKET CAPS







No.	Description	Std. Pkg.	List Price Per 100
PA	⅛ Inch	100	$44.90
PJ	¼ Inch	100	45.90
PK	⅜ Inch	100	48.80
PG	⅜ Inch, Angle	100	140.00
PZ	½ Inch	100	68.50
PAZ	½ Inch, Angle	100	140.00

INTERCHANGEABLE PORCELAIN SOCKET BASES







No.	Description	Std. Pkg.	List Price Per 100
PB	Combination	100	$51.50
PP	Large Concealed	100	56.50
PO	Flat Back 4"	50	73.00

PORCELAIN HUSK SOCKETS

Keyless, 660 Watts, 250 Volts

The porcelain body is flat on the nipple side to facilitate mounting close to metal surfaces, and to prevent socket from rolling.



No.	Description	Std. Pkg.	List Price Per 100
1270	With ⅛" Nipple	100	$45.90
1271	With ¼" Nipple	100	49.80

PORCELAIN DUPLEX SOCKETS



For Built-in or Cove Lighting
660 Watts, 250 Volts

No.	Description	Std. Pkg.	List Price Per 100
7940	With ⅜" Bushing	100	$75.00
7941	With ⅛" Bushing	100	75.00



4364

ADJUSTABLE ANGLE ADAPTER

Adjustment, 180° Vertical, 340° Horizontal, 660 Watts, 250 Volts



4364	Adjustable Adapter	100	$178.00
4365	With 3¼" Galv. Cover	50	205.00
4366	With 4" Galv. Cover	50	208.00



No.	Description	Std. Pkg.	List Price Per 100
216	Key	100	$59.50



217	Keyless	100	42.90

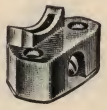
CAPS



CM	Pendent	100	$28.30
CMG	Pendent Cord Grip, ¼"-½"	100	59.50
CA	⅛ Inch	100	46.80
CL	⅜ Inch	100	54.50

LUMILINE SOCKETS

660 Watts, 250 Volts
Receptacles—Front Connected Single



No.	Description	Std. Pkg.	List Price Per 100
7979	Black	200	$29.00
7979W	White	200	32.00

Back Connected



7969	Single, Black	200	$29.00
7969W	Single, White	200	34.00
7992	Twin, Black	200	41.00
7992W	Twin, White	200	44.00

CAPS—For All Lumiline Receptacles



7980	Black	200	$14.00
7980W	White	200	15.00

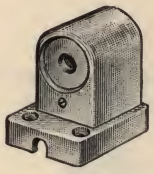
SOCKET CAP—Deep Type



7993	Black	200	$19.00
7993W	White	200	20.00
7994	Black, with Switch	200	52.00
7994W	White, with Switch	200	55.00

SLIMLINE FLUORESCENT LAMPHOLDERS WHITE BAKELITE

For ¾" and 1" diameter lamps, Single Pin



7033-W	High voltage end	100	$83.00
7034-W	Low voltage end	100	83.00

FLUORESCENT LAMPHOLDERS, STARTERS AND COMBINATIONS



FS-2

No.	Size	Lamp Size Watt	Contact Pins	Std. Pkg.	List Price Per 100
FS-2	Medium	15, 20	2	100	$24.00
FS-25	Medium	25	2	100	23.00
FS-4	Medium	30, 40	2	100	24.00
FS-85	Mogul	85, 100	2	50	85.00
FS85-4	Mogul	85, 100	4	50	85.00
FS-5	Miniature	4, 6, 8	2	50	42.00

With Automatic Reset



FS-85

When the lamp burns out this Starter automatically locks out the dead lamp. After a short cooling period a new lamp may be inserted and immediately lighted. Starter has no reset button.

FS4-NA	Medium	40	2	100	$72.00
FS-85	Mogul	85, 100	2	50	85.00
FS85-NA4	Mogul	85, 100	2	50	100.00

With Manual Reset



FS-30
Without Reset

When burned out lamp is removed, the starter is reset by pressing button at the top. This starter locks out a dead lamp and eliminates blinking and flickering.

FS-20	Medium	15, 20	2	100	$80.00
FS-30	Medium	30	2	100	88.00
FS-40	Medium	40	2	100	72.00
FS-850	Mogul	85, 100	2	100	100.00

LAMPHOLDER, MINIATURE SIZE
75 Watts, 250 Volts
For 4, 6, 8 Watt Lamps



7039

No.	Description	Color	Std. Pkg.	List Price Per 100
7039	Flush mounting	Black	100	$28.00
7039-W	Flush mounting	White	100	30.00

H & H WIRING DEVICES


7013

LAMPHOLDERS

660 Watts, 250 Volts
For 15, 20, 30, 40 Watt Lamps

No.	Description	Std. Pkg.	List Price Per 100
7013	Black, Flush or Surface	100	$15.60
7013W	White, Flush or Surface	100	17.60
7014	Black, Flush	100	21.50
7014W	White, Flush	100	23.40

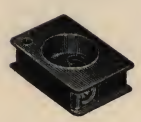

7014



COMBINATION

Starter Socket and No. 7013 Lampholder
660 Watts, 250 Volts

7019	Black	100	$34.20
7019W	White	100	37.10



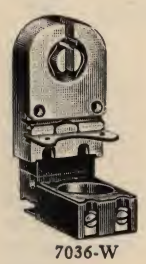
STARTER SOCKETS

7021	For Flush or Surface Mounting	100	$16.60



MOGUL SIZE—For 100 Watt Lamps

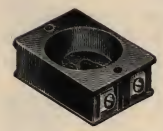
7030-W	Lampholder only	50	$44.90
7065-W	Without Bracket	50	46.00


7036-W

LAMPHOLDER with STARTER SOCKET

Takes 2 and 4 Pin Starters

7036-W	With Bracket, White	50	$78.00
7037-W	Without Bracket, White	50	76.00


7066
LAMPHOLDERS

STARTER SOCKET

Takes 2 and 4 Pin Starters

7066	For Separate or Remote Mounting, Black	50	$37.00



MOGUL BASE DEVICES

Two-Piece Interchangeable Porcelain Bodies

211	Height 3 3/16"	50	$93.00



CAPS

PMA	3/8 Inch	50	$49.80
PMC	1/2 Inch	50	51.50



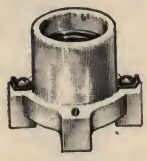
MOGUL BASE DEVICES

ONE PIECE PORCELAIN

Assembled, Cast Malleable Iron Caps
1500 Watts, 600 Volts

Porcelain is tapered towards the Cap to fit Commercial Units and Reflectors.

No.	Description	Std. Pkg.	List Price Per 100
7852	With 3/8" Cap	50	$129.00
7853	With 1/2" Cap	50	131.00



Porcelain Receptacles

5920	Cleat, Screw Spacing, 2 7/8"	50	$113.00



Mogul Extension

7917	Mogul to Mogul	50	$170.00



MINIATURE BASE DEVICES

75 Watts, 125 Volts

5974	Keyless Socket, 1/8" Cap, Brass Shell	100	$78.00



No.	Description	Base Dia.	Screw Spcg.	Std. Pkg.	List Price Per 100
7321	Cleat Receptacle	1 1/4"	1"	200	33.20

CANDELABRA BASE DEVICES

75 Watts, 125 Volts
Assembled Brass Shell Socket, 1/8" Cap.



No.	Description	Std. Pkg.	List Price Per 100
5970	Key	100	$104.00



5972	Keyless	100	91.50



Candle Sockets
With 1/8" Female Bushing

5978	Keyless, Loop Hickey, Height 2"	100	$51.00



5992	Keyless, Close Hickey, Height 1 5/16"	100	42.00



No.	Description	Base Dia.	Screw Spcg.	Std. Pkg.	List Price Per 100
7320	Cleat, round	1 7/16"	1 1/16"	100	39.00



7322	Cleat, round	1 5/16"	1 1/32"	200	33.20



Porcelain Receptacles

7323	Sign, with Ring	100	$51.50

H & H WIRING DEVICES

INTERMEDIATE BASE DEVICES



75 Watts, 250 Volts
Assembled Sockets, with ⅛" Cap

No.	Description	Std. Pkg.	List Price Per 100
631	Key	100	$105.00
632	Keyless	100	85.00
7702	Push	100	112.00







CANDLE SOCKETS

3 Inches of Chain Is Supplied on Pull Sockets

7748	Keyless, length 2"	100	$42.00



635	Keyless, Adj., 3½" to 5"	100	59.50



PORCELAIN RECEPTACLES

638	Cleat, Base dia., 1⅞"—1 7/16"	100	$36.10



ADAPTER

Medium to Intermediate

648	Sign, Rem. Ring, 1 7/16" hole	250	$40.00



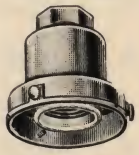
649	Bakelite Adapter	100	27.30

WEATHERPROOF SOCKETS

WITH ONE-PIECE, DIE-CAST HOOD

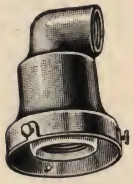
660 Watts, 250 Volts

For all locations exposed to weather, and where a sturdy, 1-piece construction is desired. The hood is die cast of zinc-base metal which **stops** corrosion in all weather. Standard finish is aluminum. Green finish will be supplied if desired at no extra charge.



WITH 2¼-INCH SHADEHOLDER

1300	½-Inch Hex. Cap	100	$99.50



1306	90° Angle, ½-inch Cap	100	102.00



WITHOUT SHADEHOLDER

1308	½-inch Hex. Cap	100	$98.50

WEATHERPROOF SOCKETS

WITH 6-INCH WIRE LEADS

660 Watts, 600 Volts



No.	Description	Std. Pkg.	List Price Per 100
43310	Composition, Shadeholder Gr.	100	$40.00
43310B	Bakelite, Shadeholder Gr.	100	35.10
60666	Composition, Shadeholder Gr.	100	56.00



43329	Union—All Rubber	100	28.30



43319	Bakelite, without Groove	100	34.20

PIN TYPE WEATHERPROOF SOCKETS

BAKELITE—With Suspension Hook. Medium—660 Watts, 250 Volts; Intermediate—75 Watts, 250 Volts



43308	Medium, for No. 12, 14 Wire	100	$30.00
44408	Intermediate, for No. 16, 18, 20 Wire	100	19.00
33308	Candelabra, for No. 16, 18, 20 Wire	100	15.00

CANDLE SOCKETS

Keyless
660 Watts, 250 Volts



4208	Fixed length	250	$31.20
5998	Adjustable	250	46.80

Pull
250 Watts, 250 Volts



5990	Fixed length	100	$83.00
4171	Fixed length, close hickey	100	83.00
5999	Adjustable	100	142.00

Bracket Style
250 Watts, 250 Volts



7709	Turn Knob	100	$102.00
7713	Pull Chain	100	83.00

H & H WIRING DEVICES

PORCELAIN RECEPTACLES



Pull Canopy Receptacle
250 Watts, 250 Volts

No.	Description	Std. Pkg.	List Price Per 100
997	7 Inches of Chain and Insulator	100	$61.50
998	Short Chain and 4 Feet of Cord	100	56.50



Shallow, Keyless, 660 Watts

7718	Screw Terminals	250	$29.30



4043	Screw Term., Shadeholder Ring	100	40.00



With Screw Back for Heating Appliances
660 Watts, 250 Volts

59109	Unglazed Back	100	$53.50



Sign and Fixture Porcelain Receptacles
660 Watts, 250 Volts

9154	Screw Terminals	250	$33.20



Surface Cleat Receptacles
660 Watts, 250 Volts

50715	Porcelain, $2\frac{7}{16}$x$2\frac{7}{16}$"	100	$28.30



50715C	Bakelite, $2\frac{7}{16}$x$2\frac{7}{16}$"	100	28.30

SURFACE CLEAT RECEPTACLES



660 Watts, 250 Volts

9171	Plain, $1\frac{15}{16}$" dia.	100	$42.90



9402	Plain, $2\frac{15}{16}$x$23\frac{23}{32}$"	100	41.00



Concealed Porcelain Surface Receptacles
660 Watts, 250 Volts

14000	Plain, $2\frac{5}{16}$" dia.	100	$71.00
14001	Groove, $2\frac{5}{16}$"	100	83.00

PORCELAIN RECEPTACLES



Concealed Porcelain Surface Receptacles
600 Watts, 250 Volts

50744	Ring, $2\frac{3}{8}$" dia.	100	$83.00



Concealed Terminal Porcelain Surface Receptacles
660 Watts, 250 Volts

499	Plain, $2\frac{15}{32}$" dia.	250	$36.10

OUTLET BOX RECEPTACLES

With Metal Covers and Receptacles Only



No.	Description	Std. Pkg.	List Price Per 100
292	With Cover, 3¼" Box	100	$53.50
445	With Cover, 4" Box	100	61.50
290	Weatherproof, with Cover 3¼" Box	100	63.50
443	Weatherproof, with Cover, 4" Box	100	68.50

Weatherproof Receptacles have 6" of No. 14 Wire.



With Bakelite Covers
660 Watts, 250 Volts

4423	For 3¼" Box	50	$81.00
4424	For 4" Box	50	86.00

OUTLET BOX, PORCELAIN RECEPTACLES

1 Piece



5965	Keyless, 3¼" Box	100	$30.30



5968	Keyless, 4" Box	50	36.10



860	Keyless, 3¼ & 4" Box	25	131.00



111	Keyless, Base diameter $4\frac{11}{16}$", Screw Hole Spacings, 2¾" and 3½"	50	36.10

2-Piece, with Shadeholder Ring

Pull, 250 Watts, 250 Volts; Keyless, 660 Watts, 250 Volts.



7425	Chain and Insulator, 3¼" Box	50	$67.50
7423	Chain and 3' cord, 3¼" Box	50	61.50
7735	Chain and Insulator, 4" Box	50	73.00
7734	Chain and 3' cord, 4" Box	50	65.50



829	Pull, 4' Cord, 3¼" & 4" Box	25	189.00
830	Pull, Chain & Ins., 3¼" & 4" Box	25	189.00



7680	With 7" Chain	50	68.50
7681	With Chain and 3' Cord	50	65.50
7682	With Chain and Insulator. Base diameter $4\frac{11}{16}$" Screw hole spacings 2¾" and 3½"	50	73.00

WITH CONVENIENCE OUTLET

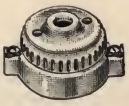
Outlet: 15 A. 125 V., 10 A. 250 V.



4347	Chain and 3' Cord, 3¼" Box	50	$85.00
4348	Chain and Ins., 3¼" Box	50	91.50
4349	7" Chain, 4" Box	50	96.50
4350	Chain and 3' Cord, 4" Box	50	96.50

H & H WIRING DEVICES

PORCELAIN ROSETTES



Fuseless, 660 Watts, 250 Volts

No.	Description	Std. Pkg.	List Price Per 100
483	Fuseless, Cleat Base	100	$41.00
484	Fuseless, concealed Base	100	41.00



1-Piece and Moulding, Fuseless Rosettes

1999	1-Piece, Cleat and concealed	100	$26.40



Outlet Box Rosettes

1172	Without Terminals, 3¼" Box.	50	$26.40
1173	With Terminals, 4" Box	50	34.20

SHADEHOLDERS



Uno Shadeholders With Ventilating Holes

4000	2¼" with screws	500	$29.30



Shadeholders for Brass Sockets Without Uno Thread

6080	2½" with screws	240	$32.00



Shadeholders for Weatherproof Sockets

4008	2¼" with screws	250	$34.20
5210	3¼" with screws	100	44.90

REDUCERS OR ADAPTERS



For Sockets and Receptacles

4011	Mogul to Medium	100	$40.00
649	Medium to Intermediate	100	27.30
392	Medium to Candelabra	100	32.20
391	Candelabra to Miniature	100	21.50



Lamp Base Diameters
Miniature—⅜-Inch
Candelabra—$\frac{13}{32}$-Inch
Intermediate—$\frac{21}{32}$-Inch
Medium—$1\frac{1}{32}$-Inch
Mogul—$1\frac{17}{32}$-Inch

SOCKET INTERIORS



5303

No	Description	Watts	Std. Pkg.	List Price Per 100
5303	Standard Pull, with Chain and Guide	250	250	$48.80
5307	Standard Pull, with Chain and Guide	660	250	82.00
5308	Standard Key	250	250	41.00



5308

5310	Standard Keyless	660	250	31.20



5310

5312	Standard Push	660	250	46.80
5311	Electrolier Keyless short shell	660	250	42.90



5312

EXTENSION ATTACHMENTS



No.	Description	Std. Pkg.	List Price Per 100
5828	For Brass Shell Pull Sockets, clearance 5"	100	$61.50
5018	For Porcelain Pull Sockets, clearance 7"	100	61.50

SOCKET ACCESSORIES

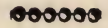


Splicing Links and Insulator

1744	Insulator for Standard Chain	100	$17.50
1743	Link for standard chain or light cord	250	6.80



1747	Link for candelabra chain	250	7.80



Bead Chain

1727	Standard	1000-ft.	$11.70

CORD



1734	White Cord for Pull Devices	1000-ft.	$ 4.90
1016	Heavy Black Cord for Ceiling Switches	1000-ft.	10.70

PENDANT TASSELS AND CORD BALL



1740	Tassel for Stand. Chain	250	$14.60
1745	Tassel for Cand. Chain	50	13.70



1742	Porcelain Pendant	100	21.50
1741	Ball for Light Cord	50	13.70
8534	Ball for Heavy Cord	50	13.70

SOCKET RINGS

7058	Porcelain, for Shallow Receptacle	100	$13.70



RELYON FLUSH TUMBLER SWITCHES

10 Amp., 125 V., 5 Amp., 250 V.

201	Single Pole	100	$29.30
201-I	Single Pole, Ivorylite	100	34.20



203	Three-Way	50	42.90
203-I	Three-Way, Ivorylite	50	46.80

H & H WIRING DEVICES

TIMESAVER DEVICES

"T" Rating—Single Switches



BAKELITE BASE

Smallness of base (⅞" deep, ⅞" wide, 1½" long) makes these switches "Timesavers" from an installation standpoint. Although small, they are extremely sturdy and are designed for Type "C" lamp loads. Fit standard boxes and take standard plates.

WITH BROWN HANDLES

No.	Description	Amperes at Std. 125V.	250V.	Pkg.	List Price Per 100
TL-1	Single Pole	10	5	100	$55.50
TL-2	Double Pole	10	10	50	105.00
TL-3	Three-Way	10	5	50	76.00
TL-4	Four-Way	5	2	10	215.00

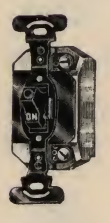
WITH IVORYLITE HANDLES

TL1-I	Single Pole	10	5	50	$59.50
TL2-I	Double Pole	10	10	10	109.00
TL3-I	Three-Way	10	5	30	90.00
TL4-I	Four-Way	5	2	10	219.00

FLUSH TUMBLER SWITCHES

Porcelain Base, 1-Inch

"T" Rating



8601	Single Pole 10T	5	100	$55.50
8914	Single Pole 20T	10	50	128.00
8602	Double Pole 10T	10	50	105.00
8931	Double Pole 20T	20	10	182.00
8603	Three-Way 10T	5	50	76.00
8913	Three-Way 20	10	10	165.00
8604	Four-Way 5T	2	10	236.00

Ivorylite Handles

"T" Rating



8601-I	Single Pole 10T	5	50	$59.50
8602-I	Double Pole 10T	10	25	109.00
8603-I	Three-Way 10T	5	25	80.00
8604-I	Four-Way 5T	2	10	240.00

LOCK TYPE

Porcelain Base, 1-Inch

"T" Rating



8601-L	Single Pole 10T	5	100	$130.00
8602-L	Double Pole ...10T	10	50	194.00
8931-L	Double Pole ...20T	20	10	274.00
8603-L	Three-Way 10T	5	50	157.00
8604-L	Four-Way 5T	2	10	483.00
5006	Key		100	21.50

Composition Base, 1-Inch

"T" Rating



1611	Single Pole 10T	5	50	$115.00
1612	Double Pole 10T	10	10	189.00
1613	Three-Way 10T	5	20	141.00
1614	Four-Way 5T	2	10	453.00

LOCK TYPE



1611-L	Single Pole 10T	5	50	$217.00
1612-L	Double Pole ...10T	10	10	283.00
1613-L	Three-Way 10T	5	20	248.00
1614-L	Four-Way 5T	2	10	550.00
5006	Key		100	21.50

TYPE "C" TUMBLER SWITCHES

"T" Rating

10 Ampere

Bakelite Base, 1½-Inch


1531

No.	Description	Amperes at Std. 125V.	250V.	Pkg.	List Price Per 100
1531	Single Pole 10	5	50	$115.00
1532	Double Pole 10	10	10	189.00
1533	Three-Way 10	5	20	141.00
1534	Four-Way 5	2	10	453.00

Ivorylite Handles


1531-I

1531-I	Single Pole 10	5	25	$119.00
1532-I	Double Pole 10	10	10	193.00
1533-I	Three-Way 10	5	10	145.00
1534-I	Four-Way 5	2	10	459.00

20 Amperes, 1⅜" Base

Brown Handles

1541	Single Pole 20	20	30	$192.00
1542	Double Pole 20	10	10	219.00
1543	Three-Way 20	20	10	218.00
1544	Four-Way 5	2	10	496.00
1545	S. P. Quad. Break..20	20	10	219.00

LOCK TYPE


1541-L

1541-L	Single Pole 20	20	30	$288.00
1542-L	Double Pole 20	10	10	308.00
1543-L	Three-Way 20	20	10	315.00
1544-L	Four-Way 5	2	10	592.00
1545-L	S. P. Quad. Break. 20	20	10	315.00
4277	Key		10	21.50

Bakelite Base, 2-Inch

4281	Single Pole 20	20	30	$192.00
4282	Double Pole 20	20	10	249.00
4283	Three-Way 20	20	10	218.00
4286	Four-Way 20	10	10	619.00
4284	S. P. Quad. Break..20	20	10	249.00

LOCK TYPE


4282

4281-L	Single Pole 20	20	30	$288.00
4282-L	Double Pole 20	20	10	346.00
4283-L	Three-Way 20	20	10	315.00
4286-L	Four-Way 20	10	10	717.00
4284-L	S. P. Quadruple Break 20	20	10	346.00
4277	Key for Lock Type.....		10	21.50

30 AMPERE

Bakelite Base, 2-Inch


4271

4271	Single Pole 30	30	30	$234.00
4272	Double Pole 30	30	10	335.00
4273	Three-Way 30	30	10	292.00
4274	Four-Way 20	10	10	826.00
4275	S. P. Quad. Break..30	30	10	292.00

LOCK TYPE

4271-L	Single Pole 30	30	30	$337.00
4272-L	Double Pole 30	30	10	433.00
4273-L	Three-Way 30	30	10	396.00
4274-L	Four-Way 20	10	10	923.00
4275-L	S. P. Quadruple Break 30	30	10	396.00
4277	Key for Lock Type		10	21.50

ROUND METAL HANDLE TYPE

1-Inch Porcelain Base


8881

8881	Single Pole 10	5	100	$117.00
8917	Single Pole 20	10	50	122.00
8882	Double Pole	10	50	147.00
8642	Double Pole	20	10	213.00
8883	Three-Way 10	5	50	129.00
8918	Three-Way 20	10	10	191.00
8884	Four-Way 5	2	10	427.00

H & H WIRING DEVICES

SPHINX SWITCHES—SILENT, MERCURY BREAK

5 Amp. 250 Volts, 5 Amp. 125 Volts; AC or DC.
"T" Rating 125 Volts only.

Silent in action, durable and dependable. Sphinx Switches are supplied with brown or Ivorylite Handles. These switches fit standard switch boxes and must be installed vertically. "Top" stamped on mounting ears shows the correct position. Brown or Ivory.


821

No.	Description	Std. Pkg.	List Price Per 100
821	Single Pole	100	$99.00
822	Double Pole	50	187.00
823	Three-Way	50	187.00
824	Four-Way	10	385.00
821-I	Single Pole	50	110.00
822-I	Double Pole	30	198.00
823-I	Three-Way	30	198.00
824-I	Four-Way	10	396.00

PUSH SWITCHES

PORCELAIN BASE—1-Inch

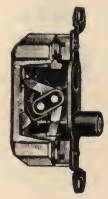

4401


4401-L

No.	Description	Amps. 125V	Amps. 250V	Std. Pkg.	List Price Per 100
4401	Single Pole	10	5	100	$82.00
8922	Single Pole	20	10	50	165.00
4402	Double Pole		10	50	165.00
8620	Double Pole		20	10	184.00
4403	Three-Way	10	5	50	108.00
4404	Four-Way	5	2	10	457.00
	LOCK TYPE				
4401-L	Single Pole	10	5	100	$173.00
4402-L	Double Pole.		10	50	260.00
4403-L	Three-Way	10	5	50	193.00
4404-L	Four-Way	5	2	10	536.00
5003	Key			100	23.40

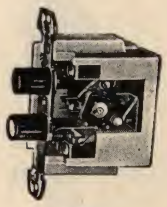
MOMENTARY CONTACT SWITCHES

1 Circuit, 1 Push Button
1-Inch Porcelain Base


1609

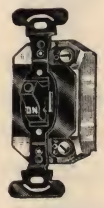
1609	S. P. Normally Open	10	5	$216.00
1606	S. P. Normally Closed	10	5	216.00
1608	3-Way	10	5	232.00
1610	D. P. Normally Open		10	323.00
1607	D. P. Normally Open		10	323.00

Single Pole, 2 Circuit, 2 Push Buttons
With Common Feed
2 3/16-Inch Porcelain Base


2061

2061	Normally Open	6	10	$676.00
2061-L	Same, Lock Style	6	10	846.00
2110	One Circuit Normally Open, other Closed	6	10	676.00
2110-L	Same, Lock Style	6	10	846.00
5003	Key for Lock Switches		10	23.40

TUMBLER
Single Pole, 1-Inch Base
10 A. 125 V., 5 A. 250 V.


1629

No.	Description	Std. Pkg.	List Price Per 100
1629	Normally Open, Porcelain	10	$188.00
1631	Normally Closed, Porcelain	10	188.00

ELECTROLIER
10 Amp. 125 V., 5 Amp. 250 V.
With Indicating Button


2967

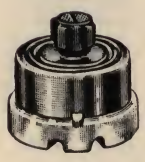
2967	1, Off, 1&2, Off, 1&2&3, Off	10	$361.00
2968	1, Off, 1&2, Off	10	361.00
3264	1, Off, 2, Off, 1&2, Off	10	361.00


2148

SURFACE SNAP SWITCHES

Nickel Finish, Metal Covers
Single Pole, Pony Size
5 Amp. 125 Volts, 3 Amp. 250 Volts

No.	Description	Std. Pkg.	List Price Per 100
2161	Slotted	100	$78.00
2163	Slotted, Indicating	100	91.50
2148	Closed	100	78.00
2162	Closed, Indicating	100	91.50
	Single Pole, Indicating Cover		
321	10A 125V Slotted	100	$128.00
221	10A 125V Closed	100	128.00
331	20A 125V Slotted	10	260.00
	Double Pole		
322	10A 125V Slotted Indicating	100	$182.00
532	20A 125V Slotted Indicating	30	365.00
647	30A 125V Slotted Indicating	30	423.00
	Nickel Finish, Metal Covers		
	Three-Way		
2153	3A 125V Slotted	100	$104.00
2152	3A 125V Closed	100	104.00
123	10A 125V Slotted	50	182.00
	Four-Way		
124	5A 125V Slotted	30	$378.00
	Triple Pole—Indicating		
326	10A 250V Slotted	10	$449.00


2664

2 Circuit Electrolier—Indicating Cover
10 Amp., 125 Volt

2664	S. 1, 2, 1&2, Off	10	$215.00
2724	S. 1, Off, 2, Off	10	201.00

3 Circuit Electrolier

325	S. 1, 1&2, 1&2&3, Off (S—Slotted Base)	10	$215.00


206


1700

SURFACE TUMBLER SWITCHES

with Bakelite Covers
6 Amp. 125 V., 3 Amp. 250 Volts

205	Single Pole, Slotted	50	$48.80
206	Single Pole, Closed	50	48.80
207	Three-Way, Slotted	50	60.50
	Bakelite Cover—Bakelite Base		
1700	Single Pole	50	$44.90
1703	Three-Way	50	57.60

10 Ampere—With Bakelite Covers
S.P. 3-Way, 4-Way
10 Amp. 125V., 5 Amp. 250 V.
Double Pole, 10 Amp. 250 Volts


8473-BC

8472-BC	S.P. Slotted	100	$120.00
8471-BC	S.P. Closed	100	120.00
8476-BC	3-Way Slotted	50	168.00
8475-BC	3-Way Closed	50	168.00
8474-BC	D.P. Slotted	100	173.00
8473-BC	D.P. Closed	100	173.00
8478-BC	4-Way Slotted	10	408.00
8477-BC	4-Way Closed	10	408.00

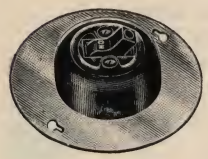
Pony Type—With Bakelite Covers
Single Pole, 6 Amp. 125 V., 3 Amp. 250 V.
Three-way, 5 Amp. 125 V., 2 Amp. 250 V.


611

611-BC	S.P., Slotted	100	$71.00
610-BC	S.P., Closed	100	71.00
613-BC	3-Way Slotted	100	97.50
612-BC	3-Way Closed	100	97.50

H & H WIRING DEVICES

SURFACE TUMBLER SWITCHES


6065-BC

Pony Type with Bakelite Switch Covers
1 pole, 6 Amp. 125 V., 3 Amp. 250 V.
3 Way, 5 Amp. 125 V., 2 Amp. 250 V.

No.	Description	Std. Pkg.	List price Per 100
6064-BC	SP 3¼" Cover....	50	$102.00
6065-BC	SP 4" Cover.....	50	108.00
6068-BC	3W 3¼" Cover...	50	114.00
6069-BC	3W 4" Cover.....	50	118.00

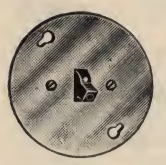

243

TUMBLER SWITCHES

With Bakelite Covers for Outlet Boxes
6 Amp. 125 V., 3 Amp. 250 V.

243	S.P. 3¼ Cover	50	$76.00
244	S.P. 4" Cover	50	84.00
245	3-Way, 3¼" Cover.....	50	86.00
246	3-Way, 4" Cover	50	90.00

With Outlet Box Covers
6 Amp. 125 V., 3 Amp. 250 V.


209

209	S.P. 3¼" Cover	50	$71.00
210	3-Way, 3¼" Cover	50	78.00
223	S.P. 4" Cover	50	78.00
224	3-Way, 4" Cover	50	83.00

FOR INSULATED SYSTEMS WITH BAKELITE OUTLET BOX COVERS

10 Amp. 125 V., 5 Amp. 250 V.

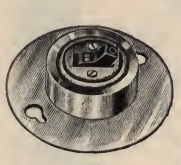

4405

4405	Single Pole, 3¼" Cover....	50	$69.50
4406	Single Pole, 4" Cover	50	81.00
4407	Three-Way, 3¼" Cover....	50	81.00
4408	Three-Way, 4" Cover	50	90.00

"T" Rating—10 Amp. 125 V. T. 5 Amp. 250 V.

4464	Single Pole, 3¼" Cover	50	$84.00
4465	Single Pole, 4" Cover	50	92.50
4466	Three-Way, 3¼" Cover ...	50	94.50
4467	Three-Way, 4" Cover.....	50	103.00

10 AMPERE—WTH NICKEL SWITCH BAKELITE COVERS


6081

S. P., 3-Way, 4-Way. 10 Amp. 125 V., 5 Amp. 250 V. Double Pole, 10 Amp. 250 V.

6081-BC	S.P., 3¼" Cover.....	50	$140.00
6085-BC	S.P., 4" Cover.....	50	145.00
6083-BC	Three-Way, 3¼" Cover	50	188.00
6087-BC	Three-Way, 4" Cover..	50	195.00

RECIPROCATING HEATER SWITCHES



9612

ABBREVIATIONS

SPSP—Single Pole, Series Parallel
DPSP—Double Pole, Series Parallel
DP—Double Pole
HMLO—High, Medium, Low, Off



9812

No.	Description	Amperes at 125V.	Amperes at 250V.	Base Dia. In.	Screw Holes C.C.	List Price Per 100
9602	SPSP, 3 heat, HMLO	6	3	2	1 5/32"	$300.00
9802	DP, Single Heat, "On," "Off"	6	3	2	1 5/32"	300.00
9612	SPSP, 3 heat, HMLO.....	10	5	2 3/16	1 5/32"	339.00
9712	DPSP, 3 heat, HMLO	10	5	2 3/16	1 5/32"	377.00
9812	DP, Single Heat, "On," "Off"	10	5	2 3/16	1 5/32"	339.00
9622	SPSP, 3 heat, HMLO.....	15	7½	2½	1 11/16"	360.00
9722	DPSP, 3 heat, HMLO.....	15	7½	2½	1 11/16"	396.00
9822	DP, Single Heat, "On," "Off"	15	7½	2½	1 11/16"	360.00
9632	SPSP, 3 heat, HMLO	20	10	2 13/16	1 11/16"	396.00
9732	DPSP, 3 heat, HMLO	20	10	2 13/16	1 11/16"	469.00
9832	DP, Single Heat, "On," "Off"	20	10	2 13/16	1 11/16"	396.00
9642	SPSP, 3 heat, HMLO	24	12	3	2 1/8"	469.00
9742	DPSP, 3 heat, HMLO	24	12	3	2 1/8"	541.00
9842	DP, Single Heat, "On," "Off"	24	12	3	2 1/8"	469.00
9652	SPSP, 3 heat, HMLO	30	15	3 5/16	2 1/8"	576.00
9752	DPSP, 3 heat, HMLO	30	15	3 5/16	2 1/8"	650.00
9852	DP, Single Heat, "On," "Off"	30	15	3 5/16	2 1/8"	576.00
9662	SPSP, 3 heat, HMLO	36	18	3 5/8	2 11/16"	720.00
9762	DPSP, 3 heat, HMLO	36	18	3 5/8	2 11/16"	937.00
9862	DP, Single Heat, "On," "Off"	36	18	3 5/8	2 11/16"	720.00

SURFACE SNAP SWITCH ACCESSORIES

Porcelain Sub-Base—For Cleat, Concealed, Molding Work


1554

No.	Description	Std. Pkg.	List Price Per 100
1554	For 5 & 10 Amp. Switch.....100		$22.40


5002

Lock Attachments and Key

5001	For 3A 5A 10A 125V 250V Sw	100	$63.50
5010	For 20A 125V 250V Sw 100		62.50
5009	For 30A 125V 250V Sw 100		62.50
5002	Key, all size 100		23.40


2127

Switch Handles

2127	Comp; 3, 5, 10A 125, 250V Sw	100	$18.50
2156	Porc; 3, 5, 10A 125, 250V Sw ..100		20.50
2157	Porc; 20A 125, 250V Sw 100		23.40
2218	Porc; 30A 125, 250V Sw 100		39.00


2156

PENDENT SWITCHES

BRASS SHELL

Pend. Cap. 13/32" Comp. Bushed Cord Hole
6 Amp. 125 Volts


3672

3672	Side Buttons 100		$94.50

FEED-THRU CORD SWITCHES

SINGLE HEAT


541

541	3A 125V Bakelite	50	$108.00


6837

6837	10A 250V Bakelite D.P.	50	225.00

ROTARY CANOPY SWITCHES

With Removable Metal Handles
3 Amp. 125 V., 1 Amp. 250 V.


7775

7775	3/16" Stem 100		$28.30
7776	5/16" Stem 100		28.30
7777	7/16" Stem 100		28.30

With Fixed Metal Handles


7783

No.	Description	Amperes at 125V	Amperes at 250V.	Std. Pkg.	List Price Per 100
7783	3/16" Stem	3	1	100	$39.00
7784	5/16" Stem	3	1	100	39.00
7785	7/16" Stem	3	1	100	39.00

H & H WIRING DEVICES

SWITCHES


450

SHALLOW CANOPY PULL SWITCHES

3 Amp. 125 V., 1 Amp. 250 V.

Stem dia., $\frac{13}{32}$"; Depth, $\frac{9}{16}$"; Width, $\frac{11}{16}$". Switch has 2½" chain and 4 ft. black cord tassel. 6" leads are standard. Brass is standard finish. Wash nickel optional at no extra cost.

No.	Description	Std. Pkg.	List Price Per 100
450	Single Pole	100	**$67.50**


3741

CEILING PULL SWITCHES WITH NICKEL COVERS

Base diameter 2½". Screw Hole Spacing 1$\frac{23}{32}$"

No.	Description	Amperes at 125V.	250V.	Std. Pkg.	List Price Per 100
3742-BC	S.P., Slotted..	10	5	30	**$259.00**
3741-BC	S.P., Closed..	10	5	30	**259.00**
3744-BC	D.P., Slotted.. ..		10	10	**339.00**
3743-BC	D.P., Closed.. ..		10	10	**339.00**
3746-BC	3-Way, Slotted	10	5	10	**318.00**
3745-BC	3-Way, Closed	10	5	10	**318.00**
4060-BC	4-Way, Closed	10	5	10	**635.00**


3741-S

WALL PULL SWITCHES WITH NICKEL COVERS

Base diameter 2½". Screw Hole Spacing 1$\frac{23}{32}$"

3742-BCS	S.P., Slotted.	10	5	30	**$270.00**
3744-BCS	D.P., Slotted ..		10	10	**339.00**

CONVENIENCE OUTLETS

Parallel Slots


311

BROWN BAKELITE AND IVORYLITE

SINGLE—Side Wired

15 Amp. 125 Volts, 10 Amps. 250 Volts

No.	Description	Std. Pkg.	List Price Per 100
311	Single	100	**$25.40**
311-I	Single	100	**33.20**


1911

1911	With Plaster Ears, T slots	100	**40.00**
1911-I	With Plaster Ears, T slots	50	**46.80**
7700	With Straight Ears, for Bakelite Tumbler Plates	100	**42.90**
7700-I	With Straight Ears, for Ivorylite Tumbler Plates	50	**48.80**


312

DUPLEX——Side Wired

312	Duplex	100	**$19.50**
312-I	Duplex	100	**23.40**

4 Screws, PLASTER EARS

1913	Brown	100	**$42.00**
1913-I	Ivorylite	50	**49.80**

2-CIRCUIT, DUPLEX, 2 FEED WIRES

1914	1 Return, common negative Brown	100	**$53.50**
1914-I	1 Return, common negative Ivorylite	50	**61.50**
1915	2 Returns, separate negative Brown	100	**53.50**
1915-I	2 Returns, separate negative Ivorylite	50	**61.50**


1914



DUPLEX CONVENIENCE OUTLET

Each Outlet Independently Wired

No.	Description	Std. Pkg.	List Price Per 100
7092	Duplex (2 and 3 wires)	20	**$205.00**



TWIST-TITE DUPLEX

Takes standard parallel blade caps. After inserting caps, a slight twist holds caps from pulling out.

9200	Brown Bakelite	100	**$71.00**
9200-I	Ivorylite	50	**73.00**
9205	With 3¼" Box Cover	50	**77.00**
9206	With 4¼" Box Cover	50	**79.00**



CONVENIENCE OUTLET DUPLEX SURFACE

15 Amp. 125 Volts, 10 Amp. 250 Volts

1917	2-Piece, Bakelite	50	**$62.50**
1917-I	2-Piece, Ivorylite	50	**73.00**

OUTLETS

For 3¼" and 4" Boxes

With Cadmium Finished Cover


7007


7008

251	Single, 3¼" Cover	100	**$44.90**
252	Single, 4" Cover	50	**47.80**
7006	Single, 3¼"	100	**46.80**
7007	Single, 4"	50	**52.50**
253	Duplex, 3¼" Cover	50	**42.90**
254	Duplex, 4" Cover	50	**47.80**
7049	Duplex, 3¼"	50	**54.50**
7008	Duplex, 4"	50	**60.50**

DUPLEX OUTLETS

For 3¼" and 4" Boxes with Bakelite Box Covers for Insulated Systems


4409

15 A. 125 V., 10 A. 250 V.

4409	Parallel Slots, 3¼" Cover	50	**$59.50**
4410	Parallel Slots, 4" Cover	50	**65.50**
4418	T Slots, 3¼" Cover	50	**67.50**
4419	T Slots, 4" Cover	50	**74.00**

H & H WIRING DEVICES



CLOCK HANGER OUTLET

15 Amp. 125 V., 10 Amp. 250 V.

Provides mechanical support and electrical connection for clocks.

No.	Description	Pkg.	Std. List Price Per 100
453	With .040" Plate	30	**$98.50**



7707	2-Wire, with .040" Plate	10	**197.00**
7707-C	2-Wire, with .060" Plate	10	**190.00**
7708	3-Wire, with .040" Plate*	10	**321.00**
7708-C	3-Wire, with .060" Plate	10	**334.00**

*Fits 7440 and 7077 Caps.

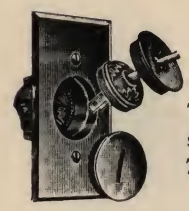


FAN HANGER OUTLET

15 Amp. 125 V., 10 Amp. 250 V.

Provides electrical connection and mechanical support for fans.

7750	Clamp type, with plate	20	**$373.00**
7751	Stud type, with plate	20	**373.00**

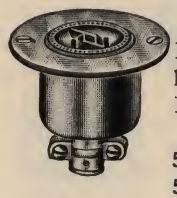


FLOOR OUTLET

15 Amp. 125 V., 10 Amp. 250 V.

To plug in lamps or appliances without the nuisance of running long cords from the wall.

7797	With bevel edge plate	10	**$322.00**



"ALL AROUND" OUTLET

Diameter of box body 1½", plate diameter 2½", height 2⅛" over all, including connector. "All Round" outlets are easily and quickly installed.

15 Amps. 125 Volts, 10 Amps. 250 Volts

5016	With straight connector	50	**$70.00**
5017	With angle connector	50	**248.00**

SINGLE—ROUND OUTLETS

15 Amp. 125 Volts, 10 Amp. 250 Volts



No.	Description	Pl. Screw Dia. Spac. —Inches—	Pkg.	Std. List Price Per 100
1454	With Brass Plate	2¾ 1⅞	50	**$142.00**
1455	With Brass Plate	3⅝ 2¾	50	**160.00**



WARNING LIGHT RECEPTACLE WITH LAMP

75 Watts 125 Volts

No.	Description	Pkg.	Std. List Price Per 100
2999	With Candelabra Lamp	30	**$146.00**



LAMPS FOR WARNING LIGHT RECEPTACLES

No.	Description	Pkg.	Std. List Price Per 100
2971	Candelabra base, 125 V.	30	**$46.80**



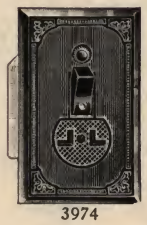
GLASS JEWELS FOR WARNING LIGHTS

These jewels fit standard single receptacle and tumbler switch plates. Standard color is red, but other colors will be supplied on special order.

8619	For Single Receptacle Plates	30	**$48.80**



1513	For Tumbler Switch Plates	30	**48.80**



3974

SWITCH AND RECEPTACLE

15 Amp. 125 V., 10 Amp. 250 V.

May be wired so the switch controls the receptacle or so that the receptacle is always on and the switch controls overhead lights.

With Double Pole Switch, 10 Amp. 250 Volts

8998	Composition, .060" Brass Plate	10	**$310.00**
3974	Composition, Bakelite Plate	10	**293.00**



7739

SWITCH AND WARNING LIGHT

Jewel Flush with Plate, S.P. and 3-Way 10 Amp. 125 V., 5 Amp. 250 V., D.P., 10 Amp. 250 V.

Warning light shows at a glance when lights are left on in cellars, attics, closets, etc. The jewel is flush with the plate, thus eliminating lamp breakage. Intermediate base lamps are used. Brass Plates are .060".

No.	Description	Pkg.	Std. List Price Per 100
7739	Single Pole, Brass Plate	10	**$428.00**
7759	Single Pole, Bakelite Plate	10	**428.00**
7956	Double Pole, Brass Plate	10	**428.00**
7957	Double Pole, Bakelite Plate	10	**428.00**



RECEPTACLES FOR LID PLATES

660 Watts, 250 Volts.

1708	Edison Screw Base	50	**$62.50**

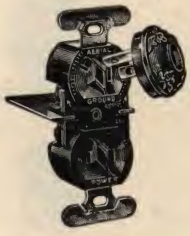
H & H WIRING DEVICES



RADIO OUTLETS SINGLE

For Aerial and Ground connections. Made of Bakelite. Has slots and plug fingers set at an angle so that it is impossible to reverse. Aerial and Ground. Brown or ivory.

No.	Description	Std. Pkg.	List Price Per 100
2147	Receptacle and GH Cap	10	$82.00
2147-I	Receptacle and GH Cap	10	94.50
2149	Receptacle only	10	61.50
2149-I	Receptacle only	10	68.50



DUPLEX

For Aerial, Ground and Power. Similar to the Single, except the addition of a standard Power outlet. Brown or ivory.

2145	Receptacle and GH Cap	10	$157.00
2145-I	Receptacle and GH Cap	10	173.00
2146	Receptacle GH Cap and Bakelite Plate	10	172.00
2146-I	Receptacle GH Cap and Bakelite Plate	10	191.00
2144	Receptacle only	10	138.00
2144-I	Receptacle only	10	146.00

CAP FOR RADIO OUTLETS



Plug fingers are set at an angle so it cannot be inserted in a power outlet and is impossible to reverse the Aerial and Ground when inserting. Brown or ivory.

GH	Radio Cap	10	$20.50
GH-I	Radio Cap	10	25.40

BAKELITE HEATER PLUGS



7760



7762



7761

With Spring Clips

There are no screws to lose or loosen on these standard Plugs. Sections are held together by spring clips which are self-adjusting to yanks, strains and temperature changes. Plugs are made with or without switch.

7760	Bakelite, Switchless	100	$31.20
7762	Bakelite, with Switch	100	75.00

BAKELITE, PONY SIZE COMPOSITION, SWITCHLESS

with Spring Clips

7761	Bakelite, Pony, Switchless	100	$28.30

WEATHERPROOF SWITCHES

For Outlet Boxes or Wall Cases



7981

For installations exposed to weather, dampness and special atmospheric conditions as on porches, garages, patios, industrial plants and other exposed locations. Switch is operated with a lever pointing to "On" and "Off" positions.

The catalog number includes a brass plate, cadmium finished, and a weatherproof mat.

No.	Description	Amperes at 125V.	Amperes at 250V.	Std. Pkg.	List Price Per 100
7981	Single Pole	10T	5	10	$225.00
7865	Single Pole	20T	10	10	320.00
7982	Double Pole	10T	10	10	282.00
7866	Double Pole	20T	20	10	366.00
7983	Three-Way	10T	5	10	250.00
7867	Three-Way	20	10	10	356.00
7984	Four-Way	5T	2	5	514.00

Any of the above switches can be supplied in 2 or 3 gangs at twice or three times the price of single switches.

For "FS" Type Fittings



7981-FS

The catalog number includes a steel, aluminum spray finished plate with a rounded edge, designed for "FS" Type fittings. A rubber weatherproof mat is included which fits under the cover. This makes a neat, inexpensive weatherproof job for industrial installations.
No mechanism is exposed to moisture, weather or atmospheric conditions. Switch is operated with a lever pointing to "On" and "Off" indications stamped in the plate.

7981-FS	Single Pole	10T	5	10	$261.00
7865-FS	Single Pole	20T	10	10	351.00
7982-FS	Double Pole	10T	10	10	322.00
7866-FS	Double Pole	20T	20	10	396.00
7983-FS	Three-Way	10T	5	10	288.00
7867-FS	Three-Way	20	10	10	387.00
7984-FS	Four-Way	5T	2	5	540.00

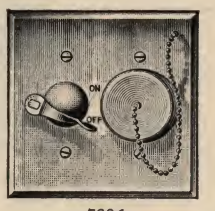


OUTDOOR WEATHERPROOF LOCK SWITCHES (Rotary Type)

For switch control in locations exposed to weather. A rubber mat, cadmium finish plate and screw cap provide the weatherproofing.

1281-WP	Single Pole	10	5	30	$1,253.00
1282-WP	Double Pole	..	10	10	1,370.00
1283-WP	Three-Way	10	5	10	1,324.00
1284-WP	Four-Way	5	2	5	1,364.00

H & H WIRING DEVICES



7886

WEATHERPROOF FLUSH SWITCH AND RECEPTACLE

Two Gang Unit

Unit is complete with switch, receptacle, cadmium finished brass plate and rubber mat.

No.	Description	Amperes at 125V.	Amperes at 250V.	Std. Pkg.	List Price Per 100
7886	Single Pole	10	5	10	$496.00
7888	Three-Way	10	5	10	528.00

WEATHERPROOF FLUSH RECEPTACLE



15 Amps. 125 Volts, 10 Amps. 250 Volts

Complete, with cap to close opening, plate, rubber mat and receptacle. Competitively priced.

No.	Description	Std. Pkg.	List Price Per 100
454	Complete Unit	30	$176.00


7792

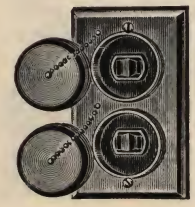

7793

A permanent, weatherproof outlet for plugging in outdoor lighting connections or appliances, also for inside installations exposed to moisture. Sturdily designed to weather rain, snow, ice and dampness. Cadmium finished .060" brass plate and cap defies rust and corrosion. When not in use, a metal cap screws over the opening—when connected, the regular cap may be covered with metal cap No. 7793. A rubber mat, fitting under the plate, completes the weather-proofing.

7792	With Plate, 2-Wire	10	$236.00
7780	2-Gang, with Plate, 2-Wire	5	472.00
7796	With Plate, 3-Wire	10	373.00
7793	Metal Cap	10	71.00
7792-FS	Two-Wire for "FS" Unilets	10	277.00
7796-FS	Three-Wire for "FS" Unilets	10	373.00

WEATHERPROOF DUPLEX FLUSH RECEPTACLE

15 Amp. 125 V., 10 Amp. 250 V.



Complete with .060" brass plate, metal caps, rubber mat and Duplex Outlet.

7890	With Plate, 2-Wire	10	$322.00



BAKELITE TAPS AND SOCKETS

No.	Description	Std. Pkg.	List Price Per 100
7778	Cord Cube Tap, 15A. 125V., 10A. 250V.	100	$28.30



7772	Cube Tap, 15A. 125V., 10A. 250V.	100	27.30



7774	Current Tap, 660W. 250V.	100	44.90



7773	2-Way Socket, 660W. 250V.	100	40.00

PULL CURRENT TAP



With Double Plug Outlet

Pull chain controls lamp outlet. Multiple plug outlets are always on.

660 Watts, 250 Volts

7779	Bakelite	100	$65.50

PENDENT SWITCH AND CURRENT TAP



BAKELITE

6 Amp. 125 V., 3 Amp. 250 V. $\frac{13}{32}$" Cord Hole

8059	With Double T Slot Tap	50	$106.00

RUBBER HANDLE SOCKET



250 Volts

7799	Turn Knob Socket, 250 Watts	20	$89.00
7781	Keyless Socket, 660 Watts	20	59.50

PONY CORD CONNECTORS

COMPOSITION

Parallel Slots—15 A. 125 V., 10 A. 250 V.



No.	Cord Hole Inches	Description	Std. Pkg.	List Price Per 100
7054	$\frac{5}{16}$	For RP Cap	50	$32.20
7057	$\frac{13}{32}$	For RZ Cap	50	32.20
3033	$\frac{5}{16}$	Armored Cord Grip	50	74.00

H & H WIRING DEVICES

STANDARD CORD CONNECTORS



COMPOSITION

Double "T" Slots—15 A. 125 V., 10 A. 250 V.

No.	Cord Hole Inches	Description	Std. Pkg.	List Price Per 100
7062	13/32	For RA or TA	50	$57.50



3034	1/4-1/2	Armored Cord Grip	50	90.00
3035	3/8-5/8	Armored Cord Grip	50	90.00

DOUBLE "T" SLOT BAKELITE ATTACHMENT PLUG



660 Watts, 250 V.

7051	..	Base 100		$51.80

BASES



BAKELITE COMPOSITION

660 Watts, 250 V.

1901	..	Bakelite, Pony 500		$16.00



1403	..	Composition, Standard 250		25.40

ATTACHMENT PLUG CAPS



15 A. 125 V., 10 A. 250 V.

PONY SIZE, PARALLEL BLADES



GA	9/32-3/8	(.281-.375) Bakelite ... 500		$12.70
GR	5/16	(.312) Bakelite, Pull Handle 100		14.60



7101	13/32	(.406) Armored, for S Cord 250		25.40

PONY SIZE ARMORED CORD GRIP—PARALLEL BLADES



Fit Duplex Receptacles

4236	5/16	(.312) Composition	50	$46.80
4237	13/32	(.406) Composition	50	46.80

STANDARD SIZE, COMPOSITION, PARALLEL BLADES



1407	13/32	(.406) Dia. 1½" 250	.....	$19.50
4234	1/2	(.500) Countersunk for 5/8" Cord 250		19.50



RUBBER PARALLEL BLADES

GS	3/8	(.375) Pony 100		$14.60



GG	13/32	(.406) Standard 100		24.40



ATTACHMENT PLUG CAPS

No.	Cord Hole Inches	Description	Std. Pkg.	List Price Per 100
GN	5/16	(.312) Standard 100		$24.40
GNL	11/32	(.343) Standard 100		27.30



7843

15 A. 125 V., 10 A. 250 V.

STANDARD SIZE RUBBER WITH CORD GRIP

7845	19/64-9/16	(.296-.562) Parallel	50	$51.00
4432	19/64-9/16	(.296-.562) Polarized ...	50	61.50
4433	13/32-5/8	(.406-.625) Parallel	50	51.00
4434	13/32-5/8	(.406-.625) Polarized ...	50	61.50
7843	19/64-9/16	(.296-.562) Tandem	50	51.00
7844	13/32-5/8	(.406-.625) Tandem	50	51.00
GL	13/32	(.406) Armored, Parallel	50	51.00



GL

STANDARD SIZE CAPS WITH ARMORED CORD GRIP

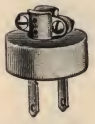
PARALLEL BLADES

15 A. 125 V., 10 A. 250 V.



7071	13/32	For 3/8" Heater Cord..	50	$46.80
7072	13/32	For 1/2" Cord	50	46.80
7073	1/2	Countersunk, for 5/8" Cord	50	46.80
4238	13/32	Steel Covered	50	51.50
7842	5/16-9/16	Steel Covered	50	54.50
4435	5/16-9/16	Same, Polarized	50	65.50





4437	13/32-5/8	Steel Covered	50	54.50
4438	13/32-5/8	Same, Polarized	50	65.50

STANDARD CAPS—TANDEM BLADES

Bakelite, Composition, Rubber—15 A. 125 V., 10 A. 250 V.



7050	13/32	Composition 100		$28.30



7074	13/32	Composition, Cord Grip	50	48.80
7075	1/2	Composition, Cord Grip	50	48.80



4232	13/32	Composition, Steel Covered, Cord Grip...	50	46.80



7841	9/16	Composition, Steel Covered, Cord Grip...	50	54.50
4436	13/32-5/8	Composition, Steel Covered, Cord Grip...	50	54.50

H & H WIRING DEVICES

MOTOR PLUG CAPS

PARALLEL BLADES, COMPOSITION

15 Amp. 125 V., 10 Amp. 250 V.







No.	Description	Std. Pkg.	List Price Per 100
7055	Pony	50	$30.30
7302	Pony, with Plate	50	71.00
4239	Standard	50	30.30

ADAPTER CAPS

COMPOSITION—Standard to Edison

660 Watts, 250 V.



7370	Parallel Blades	50	$54.50



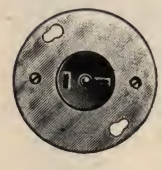
7368	Tandem Blades	50	54.50

POLARIZED DEVICES, 2-Wire, 10 Amps

10 Amp. 250 Volts, 15 Amp. 125 Volts



7960	Flush Receptacle, Bakelite	30	$83.00



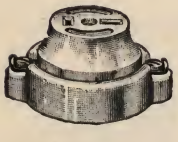
7964	Outlet Box Receptacle, 3¼"	30	96.50
7965	Outlet Box Receptacle, 4"	30	107.00



7963	Composition Cap, $\frac{9}{16}$" Cord Hole	30	61.50



7846	$\frac{12}{64}$"-$\frac{9}{16}$" (.296-.562) Rubber, Cord Grip	30	91.50



7961	Cleat Base	30	97.50



7962	Concealed Base	30	97.50

POLARIZED DEVICES

2-Wire, 20 Amperes

20 Amperes, 250 Volts

CAPS







No.	Description	Std. Pkg.	List Price Per 100
7303	Composition, $\frac{9}{16}$" (.562)	30	$73.00
7304	Armored Cord Grip, $\frac{9}{16}$" (.562)	30	114.00
7859	Bakelite, Cord Grip, $\frac{9}{16}$" (.562)	30	108.00



7847	Rubber $\frac{5}{8}$" (.625)	30	109.00



7380	Flush Motor, Screws Spaced $2\frac{3}{16}$" on centers	30	163.00



RECEPTACLES

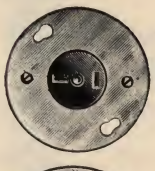
7858*	Duplex, Bakelite	30	$224.00
7860	Duplex, 4" Cover	30	216.00
7861	Duplex, Bakelite	30	236.00



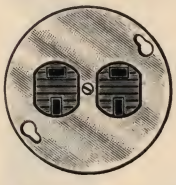
7089†	Single, Bakelite	30	143.00



7306	Surface Cleat, Porcelain	30	121.00
7307‡	Surface Concealed, Porcelain	30	121.00



7432	Single, 3¼" Cover	30	154.00
7433	Single, 4" Cover	30	161.00



7862	Duplex, with 4" Cover	30	248.00

*Takes 2 No. 7859 Caps and standard Duplex Plate.
†Takes standard Single Convenience Outlet Plate.
Cadmium finish covers are standard for Outlet Box Covers.
‡Screw hole spacing 1½".

H & H WIRING DEVICES



POLARIZED DEVICES
2-WIRE, 20 AMPERES
20 Amperes, 250 Volts
CORD CONNECTORS
9/16" (.562) Cord Hole

No.	Description	Std. Pkg.	List Price Per 100
7381	Composition	30	$104.00



7434	With Cord Grip, Armored. Center to center slot and blade spacing 27/32" (.844)	30	143.00



CAPS

7859	Bakelite Cord Grip Cap, 9/16" (.562)	30	$108.00



No. 7861 fits Standard Duplex Plates, and takes two No. 7859 Caps.

2-WIRE, 30 AMPERES—30 Amp. 250 Volts

7437	21/32" Composition Cap	30	$103.00



7436	Same, with Cord Grip	30	201.00

Gang Installation must have a blank unit between each receptacle because of outside diameter of plug.



7438	Flush Receptacle	30	193.00



7439	.040" Brass Plate	30	51.50

3-WIRE, 10 AMPERES
15 Amp. 125 Volts, 10 Amp. 250 Volts
COMPOSITION CAPS



7070	Composition, 15/32" (.468)	50	$48.80



7440	Composition, Pony, 13/32" (.406)	50	48.80
7457	Bakelite, Pony, 9/32" (.281)	50	48.80

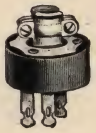
CORD GRIP CAPS



7308	Armored, 15/32" (.468)	50	$84.00



7848	Rubber 9/16" (.468)	50	84.00



4429	Rubber, 13/32"-5/8" (.406-.625)	50	84.00



POLARIZED DEVICES
3-WIRE, 10 AMPERES
15 Amp. 125 Volts, 10 Amp. 250 Volts
CORD CONNECTORS

No.	Description	Std. Pkg.	List Price Per 100
7312	Body, 15/32" (.468)	50	$102.00

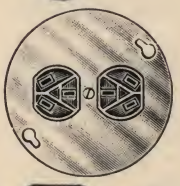


7313	Armored Cord Grip Body, 15/32" (.468)	50	139.00



3-WIRE, 10 AMPS.
15 Amp. 125 Volts, 10 Amp. 250 Volts
RECEPTACLES

7310	Single, Flush	50	$163.00



7442	Single, 4" Cover	50	183.00
7053	Duplex, 4" Cover	30	248.00



7445	Duplex, Flush, Bakelite	30	226.00

3-WIRE, 20 AMPERES
20 Amp. 250 Volts
CAPS



7314	Composition, 5/8" (.625)	30	$91.50



7315	Cord Grip, 5/8" (.625)	30	145.00

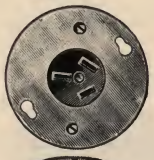


7849	Rubber, Cord Grip, 5/8" (.625)	20	138.00



RECEPTACLES

7316	Single, Flush	30	$181.00



7456	Single, with 4" Cover	30	201.00



7317	Single, Surface Concealed	30	146.00

H & H WIRING DEVICES

POLARIZED DEVICES, 3-Wire, 20 Amperes





20 Amp. 250 Volts

CORD CONNECTORS

No.	Description	Std. Pkg.	List Price Per 100
7318	Composition, 5/8" (.625)	30	$182.00
7319	Armored Cord Grip, 5/8" (.625)	30	215.00

3-Wire, 50 Amperes

50 Amperes, 250 Volts

RANGE CAPS, BAKELITE

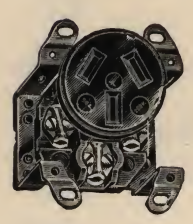
90° Angle Caps for Flush or Surface Range Outlets. Has ground strap and built-in cable clamps, and solderless connections. For straight-in wiring.



No.	Description	Std. Pkg.	List Price Per 100
7952	With 2-Screw Contacts	10	$319.00

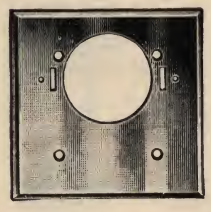
FLUSH RANGE OUTLETS, BAKELITE

With 2-Screw Contacts



Designed for 4" or 4 11/16" box and standard 3/4" plaster cover. No special attachments are required. Makes a neat, attractive appearance, inexpensive in cost and installation. Straight-in wiring and solderless connections make wiring easy. Receptacle is made of Bakelite with grounding slots and contacts in the plate.

No.	Description	Std. Pkg.	List Price Per 100
7987	Receptacle only	10	$387.00
7990	Receptacle, with .040" Plate	10	484.00
7991	Receptacle, with .060" Plate	10	536.00



PLATES

For Flush Range Outlets

Nos. 7987, 7935

Standard finish is Brush Brass. For special finishes add the usual advance for two-gang plates. Dimensions 4 1/2" high, 4 9/16" wide. Standard 2-gang size.

7988	.040" Brass	10	$130.00
7989	.060" Brass	10	182.00

SURFACE RANGE OUTLETS

With built-in cable clamp interchangeable for back or bottom wiring. Has 3/4" and 1" knockouts.



No.	Description	Std. Pkg.	List Price Per 100
7950	Bakelite, 2-Screw Contacts	10	$231.00



POLARIZED DEVICES, 3-Wire

Range Cord—Sets

BAKELITE CAP RUBBER CORD

35 Amps. 250 Volts, 2 No. 8, 1 No. 10 Conductors

No.	Description	Std. Pkg.	List Price Per 100
7927	36 Inches long	10	$275.00
7927-B	48 Inches long	10	387.00

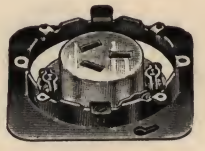
50 Amps. 250 Volts, 2 No. 6, 1 No. 8 Conductors

7928	36 Inches long	10	$308.00
7928-B	48 Inches long	10	460.00

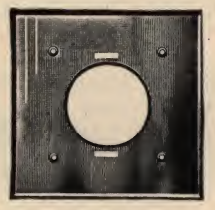
3-Wire, 50 Amperes

50 Amperes 250 Volts

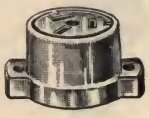
RECEPTACLES



7398



7400



7402

No.	Description	Std. Pkg.	List Price Per 100
7398	Flush, with Plaster Box	10	$748.00
7454	Flush, without Cover	10	630.00
7455	Plaster Box Cover	10	107.00
7738	With Surface Box Galv. Cover	10	862.00
7402	Porcelain Surface	10	188.00

PLATES 5 1/2" SQUARE

7399	Solid Brass, without Ground Contacts	10	$219.00
7400	Solid Brass, with Ground Contacts	10	271.00
7401	.060" Steel, with Ground Contacts	10	151.00

TWIST-LOCK DEVICES

10 Amp. 2-Wire Receptacles

10 Amperes, 250 Volts; 15 Amperes, 125 Volts



XT-7535



XT-7540



XT-7543

SINGLE RECEPTACLES

XT-7535	Bakelite Receptacle	50	$75.00

DUPLEX RECEPTACLES

XT-7540	Bakelite Receptacle	50	$135.00
XT-7543	With 3 1/4" cover	50	143.00
XT-7544	With 4" cover	30	156.00

10 AMP. BAKELITE CONNECTOR BODIES



XT-7503



XT-7506

XT-7503	Connector Body—.375"	50	$68.00
XT-7506	Body, Cord Grip—.296" to .562"	50	81.00

H & H WIRING DEVICES

TWIST-LOCK DEVICES

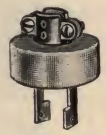
10 Amp. 2-Wire Plug Caps

10 Amperes, 250 Volts; 15 Amperes, 125 Volts


XT-7504


XT-7507


XT-7545


XT-7542

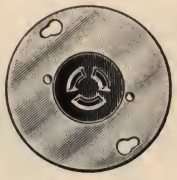
No.	Description	Cord Diam.	Std. Pkg.	List Price Per 100
XT-7504	Bakelite	.375″	50	**$47.50**
***XT-7505**	Bakelite	.375″	50	**47.50**
XT-7507	Bakelite, Cord Grip	.296″ to .562″	50	**54.00**
***XT-7508**	Bakelite, Cord Grip	.296″ to .562″	50	**62.00**
XT-7545	Rubber	.296″ to .562″	50	**73.00**
XT-7546	Rubber	.406″ to .625″	50	**73.00**
***XT-7547**	Rubber	.296″ to .562″	50	**89.00**
***XT-7548**	Rubber	.406″ to .625″	50	**89.00**
XT-7542	Armored	.296″ to .562″	50	**61.00**
XT-7549	Armored	.406″ to .625″	50	**60.00**
***XT-7588**	Armored	.296″ to .562″	50	**70.00**
***XT-7589**	Armored	.406″ to .625″	50	**70.00**

*Polarized—One wide and one narrow blade.

10 Amp. 3-Wire Receptacles

No. XT-7582 fits any standard single flush Receptacle Plate.


XT-7582


XT-7583


XT-7580


XT-7581

No.	Description	Std. Pkg.	List Price Per 100
XT-7582	Bakelite Single Receptacle	50	**$175.00**
XT-7583	With 3¼″ cover	30	**187.00**
XT-7584	With 4″ cover	30	**201.00**

3-Wire Duplex Receptacles

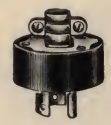
No. XT-7580 takes any standard duplex receptacle flush plate.

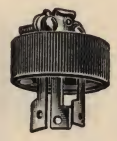
XT-7580	Bakelite Duplex Receptacle	50	**$254.00**
XT-7581	Bakelite Duplex Receptacle, 4″ cover	30	**282.00**

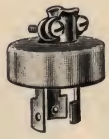
TWIST-LOCK DEVICES

10 Amp. 3-Wire Polarized Caps

10 Amperes, 250 Volts; 15 Amperes, 125 Volts


XT-7567


XT-7554


XT-7572


XT-7555

No.	Description	Cord Diam.	Std. Pkg.	List Price Per 100
XT-7567	Rubber	.296″ to .562″	50	**$112.00**
XT-7568	Rubber	.406″ to .625″	50	**112.00**
XT-7554	Bakelite	.296″ to .562″	50	**94.00**
XT-7558	Bakelite	.406″ to .625″	50	**94.00**
XT-7572	Metal Covered Comp.	.296″ to .562″	50	**102.00**
XT-7573	Metal Covered Comp.	.406″ to .625″	50	**102.00**
	3-Wire Bakelite Connector Bodies			
XT-7555	Body	.296″ to .562″	50	**$161.00**
XT-7559	Body	.406″ to .625″	50	**161.00**

3-Wire Bakelite Connector Bodies
20 Amp. 2-Wire Plug Caps

20 Amperes, 250 Volts


XT-9763


XT-7102


XT-7062

RUBBER CORD GRIP CAPS

No.	Description	Std. Pkg.	List Price Per 100
XT-9763	.296″ to .562″ Cord Hole	30	**$80.00**
***XT-9764**	.296″ to .562″ Cord Hole	30	**95.00**
XT-9765	.406″ to .625″ Cord Hole	30	**80.00**
***XT-9766**	.406″ to .625″ Cord Hole	30	**95.00**

METAL COVERED CORD GRIP CAPS

XT-7102	.296″ to .562″ Cord Hole	30	**$68.00**
***XT-9102**	.296″ to .562″ Cord Hole	30	**78.00**
XT-7238	.406″ to .625″ Cord Hole	30	**68.00**
***XT-9103**	.406″ to .625″ Cord Hole	30	**78.00**

COMPOSITION CAPS

XT-7062	.406″ Cord Hole	50	**$54.00**
***XT-7063**	.406″ Cord Hole	50	**62.00**

*Polarized—One wide and one narrow blade.


XT-7210

2-Wire Flush Receptacles

No. XT-7210 receptacle may be used with either polarized or non-polarized Twist-Lock Caps, and fits any standard single convenience outlet plate.

No.	Description	Std. Pkg.	List Price Per 100
XT-7210	Single Recep., Porc.	50	**$81.00**


XT-7216

XT-7216	With 3¼″ cover	50	**94.00**
XT-7217	With 4″ cover	30	**102.00**

H & H WIRING DEVICES

TWIST-LOCK DEVICES

20 AMP. 2-WIRE CORD-GRIP CONNECTORS AND PLUG

20 Amperes, 250 Volts

Bakelite. Steel covered, cadmium plated. Bodies may be used with either polarized or non-polarized caps.



XT-7101



XT-7612

No.	Description	Cord Diam.	Std. Pkg.	List Price Per 100
XT-7101	Bakelite Body	.296" to .562"	30	**$108.00**
XT-7224	Bakelite Body	.406" to .625"	30	**108.00**
***XT-7612**	Screw Base Plug, 660W., 250V.....		100	**100.00**

* Polarized—one wide and one narrow blade. Metal container is nickel-plated.

20 AMP. 3-WIRE POLARIZED CAPS AND CONNECTORS

20 Amps., 250 Volts, A.C. or D.C.—10 Amps., 575 Volts, A.C.



XT-9965



XT-7311



XT-7313

***XT-9965**	Rubber	.437" to .750"	30	**$147.00**
***XT-7311**	Composition, Armored	.437" to .750"	30	**147.00**
XT-7313	Bakelite Body	.437" to .750"	30	**226.00**

3-WIRE FLUSH RECEPTACLES

20 Amps., 250 Volts, A.C. or D.C.—10 Amps., 575 Volts, A.C.



XT-7310



XT-7517

No.	Description	Std. Pkg.	List Price Per 100
***XT-7310**	Porcelain Receptacle	30	**$203.00**
	No. XT-7310 takes standard outlet plates.		
XT-7517	With 4" box cover attached	20	**226.00**

TWIST-LOCK DEVICES

20 AMP. 4-WIRE POLARIZED CAPS AND CONNECTOR



XT-9967



XT-7411



XT-7413

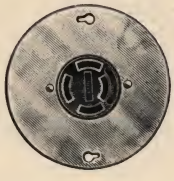
20 Amp., 250 Volts, A.C. or D.C. — 10 Amp., 575 Volts, A.C.

No.	Description	Cord Diameter	Std. Pkg.	Car-ton	Pkg. Wgt.	List Price Per 100
***XT-9967**	Rubber ...	.437" to .750"	20	10	9	**$201.00**
***XT-7411**	Composition, Armored .	.437" to .750"	20	10	8	**203.00**
XT-7413	Bakelite Body	.437" to .750"	20	10	11	**282.00**

4-WIRE FLUSH RECEPTACLES



XT-7410



XT-7417

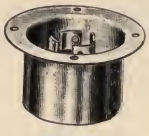
20 Amp., 250 Volts, A.C. or D.C. — 10 Amp., 575 Volts, A.C.

No.	Description	Std Pkg.	Car-ton	List Price Per 100
XT-7410	Porcelain Receptacle	20	10	**$255.00**
XT-7410-B	Bakelite Receptacle	20	10	**255.00**
XT-7417	With 4" box cover attached....	15	5	**268.00**
XT-7417-B	With 4" cover, Bakelite.....	15	5	**268.00**
XT-7421	Single Plate, .060" Brass.....	20	10	**86.00**

4-WIRE MOTOR PLUGS



XT-7415



XT-7408

20 Amp., 250 Volts, A.C. or D.C. — 10 Amp., 575 Volts, A.C.

Screw holes are spaced 90 degrees apart.

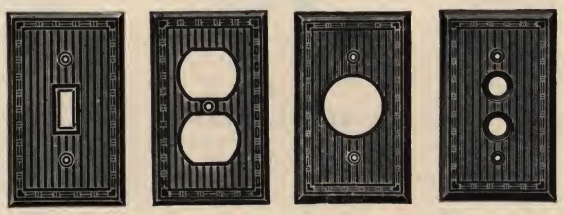
***XT-7415**	Surface Base, Comp., Male....	20	10	**$94.00**
***XT-7408**	Flush Base in Casing, Male...	20	10	**147.00**

*If 3- or 4-wire Twist-Lock devices are desired with ground shunt from one contact to cover or casing, suffix letter "G" to catalog number.

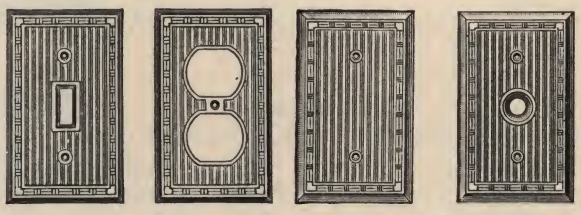
H & H WIRING DEVICES

BAKELITE PLATES UNILINE DESIGN

For Standard Wiring Devices

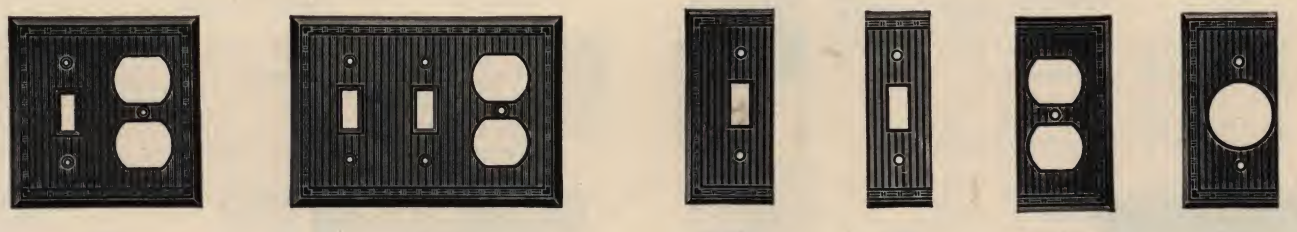


91071 91101 91091 91081



92071 92101 92121 92181

Cat. No.	Brown Bakelite Std. Pkg.	List Price Per 100	Description	Cat. No.	Ivorylite Std. Pkg.	List Price Per 100
91071	100G	$13.70	1 Gang, Tumbler	92071	50G	$19.50
91072	100G	27.30	2 Gangs, Tumbler	92072	50G	40.00
91073	100G	42.00	3 Gangs, Tumbler	92073	50G	65.50
91074	100G	75.00	4 Gangs, Tumbler	92074	50G	96.50
91075	100G	165.00	5 Gangs, Tumbler	92075	50G	207.00
91076	100G	189.00	6 Gangs, Tumbler	92076	50G	236.00
91091	100G	18.50	1 Gang, Single Convenience Outlet	92091	50G	23.40
91101	100G	13.70	1 Gang, Duplex Convenience Outlet	92101	50G	19.50
91102	100G	59.50	2 Gangs, Duplex Convenience Outlet	92102	50G	70.50
91081	100G	18.50	1 Gang, Push	92081	50G	23.40
91121	50G	24.40	1 Gang, Blank	92121	30G	30.30
91122	50G	75.00	2 Gangs, Blank	92122	30G	87.00
91181	50G	23.40	1 Gang, Telephone, 1 Outlet, $\frac{19}{32}$" hole	92181	30G	30.30



91532 91543 91451 91461 91471 91481

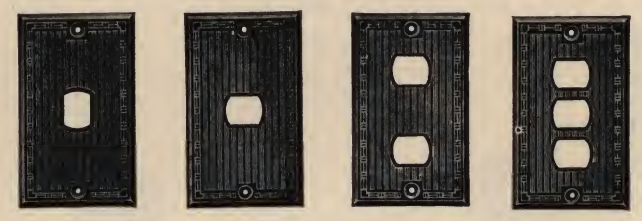
COMBINATIONS

91512	10	$42.00	2 Gangs, Tumbler and Single	92512	10	$59.50
91532	10	35.10	2 Gangs, Tumbler and Duplex	92532	10	46.80
91572	10	87.00	2 Gangs, Single and Duplex	92572	10	96.50
91523	10	82.00	3 Gangs, 2 Tumbler and Single	92523	10	104.00
91543	10	75.00	3 Gangs, 2 Tumbler and Duplex	92543	10	94.50
91554	10	189.00	4 Gangs, 3 Tumbler and Duplex	92554	10	204.00

Plate Screws: Brown plated metal screws are standard and are supplied with Bakelite plates.
Plate Screws: Ivory enameled metal screws are standard and are supplied with Ivorylite plates.

H & H WIRING DEVICES

INTERCHANGEABLE LINE—BAKELITE PLATES



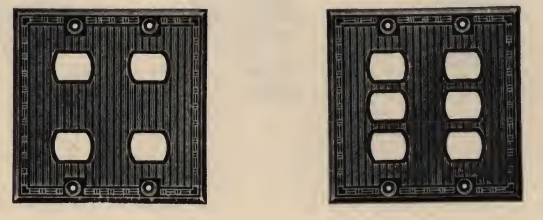
91041 91011 91021 91031

SINGLE GANG

No.	Description	Std. Pkg.	List Price Per 100
91041	One Opening, Vertical	100	$18.50
91011	One Opening, Horizontal	100	18.50
91021	Two Openings	50	18.50
91031	Three Openings	30	18.50



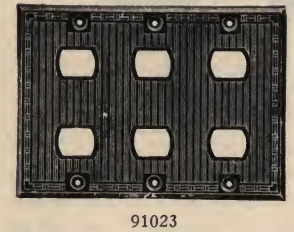
91042 91012



91022 91032

TWO GANGS

91042	Two Openings, Vertical	50	$34.20
91012	Two Openings, Horizontal	50	34.20
91022	Four Openings	30	46.80
91032	Six Openings	20	66.50



91023

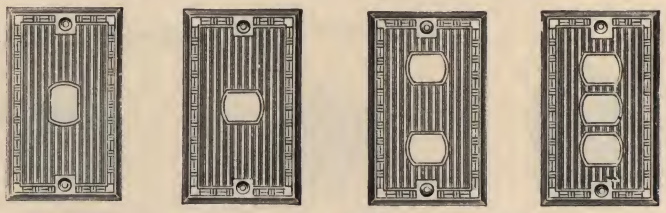
THREE GANGS

91023	Six Openings	20	$94.50

Mounting Straps: The correct mounting straps are supplied with each plate.

Plate Screws: Brown plated screws are standard and are supplied with Bakelite plates.

INTERCHANGEABLE LINE—IVORYLITE PLATES



92041 92011 92021 92031

SINGLE GANG

No.	Description	Std. Pkg.	List Price Per 100
92041	One Opening, Vertical	100	$22.40
92011	One Opening, Horizontal	100	25.40
92021	Two Openings	50	22.40
92031	Three Openings	30	22.40



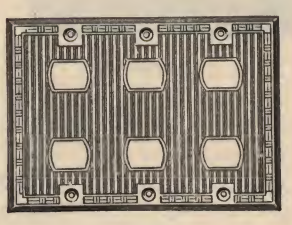
92042 92012



92022 92032

TWO GANGS

92042	Two Openings, Vertical	30	$45.90
92012	Two Openings, Horizontal	30	46.80
92022	Four Openings	30	60.50
92032	Six Openings	20	79.00



92023

THREE GANGS

92023	Six Openings	20	$113.00

Mounting Straps: The correct mounting straps are supplied with each plate.

Plate Screws: Ivory enameled metal screws are standard and are supplied with Ivorylite plates.

H & H WIRING DEVICES

INTERCHANGEABLE LINE BAKELITE END SECTIONAL PLATES


91311


91321


91331

No.	Description	Std. Pkg.	List Price Per 100
91311	One Opening, Horizontal	50	$38.00
91321	Two Openings	50	38.00
91331	Three Openings	30	38.00

BAKELITE, CENTER SECTIONAL PLATES


91411


91421


91431

91411	One Opening, Horizontal	50	$36.00
91421	Two Openings	50	36.00
91431	Three Openings	30	36.00

IVORYLITE, END SECTIONAL PLATES

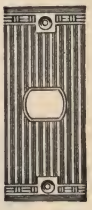

92311

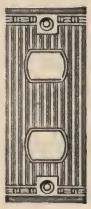

92321

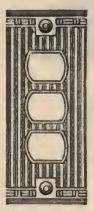

92331

92311	One Opening, Horizontal	50	$45.50
92321	Two Openings	50	45.50
92331	Three Openings	30	45.50

IVORYLITE, CENTER SECTIONAL PLATES


92411


92421


92431

92411	One Opening, Horizontal	50	$41.00
92421	Two Openings	50	41.00
92431	Three Openings	30	41.00

Mounting straps are furnished with each plate section. Brown finished plate screws are furnished with Bakelite plate sections, and Ivory enameled plate screws with Ivorylite plate sections.

BRASS PLATES

FOR TUMBLER SWITCHES—.040" BRASS



No.	Description	Std. Pkg.	List Price Per 100
94071	1 Gang	100G	$49.80
94072	2 Gangs	100G	98.50
94073	3 Gangs	100G	148.00
94074	4 Gangs	100G	193.00
94075	5 Gangs	100G	247.00
94076	6 Gangs	100G	296.00
94077	7 Gangs	100G	468.00
94078	8 Gangs	100G	517.00

FOR DUPLEX CONVENIENCE OUTLETS



94101	.040", 1 Gang	100G	$49.80
94012	.040", 2 Gangs	100G	142.00
94013	.040", 3 Gangs	100G	215.00

PUSH PLATES



94081	.040", 1 Gang	100G	$49.80
94082	.040", 2 Gangs	100G	98.50
94083	.040", 3 Gangs	100G	148.00
96081	.060", 1 Gang	100G	63.50
96082	.060", 2 Gangs	100G	127.00
90081	Solid, 1 Gang	100G	192.00

BRASS PLATES TELEPHONE



94181	1 Gang, .040"	50G	$67.50
94182	2 Gangs, .040"	50G	139.00
94183	3 Gangs, .040"	50G	207.00

BLANK PLATES



94121	1 Gang, .040"	50G	$63.50
94122	2 Gangs, .040"	50G	127.00
94123	3 Gangs, .040"	50G	190.00

"DURACROME"—.040" BRASS





No. Dull	No. Pol.	Description	Std. Pkg.	List Price Per 100	
4151	4151-P	1 Gang, Tumbler	100G	$91.50	$91.50
4152	4152-P	2-Gang Tumbler	100G	172.00	172.00
4153	4153-P	3 Gang, Tumbler	100G	236.00	236.00
4154	4154-P	4 Gang Tumbler	100G	325.00	325.00
4150	4150-P	1 Gang, Duplex	100G	91.50	91.50
4155	4155-P	1 Gang, Single	100G	91.50	91.50

P&S DESPARD WIRING DEVICES

SWITCHES



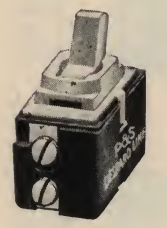
1311

SPECIFICATION TYPE

All Bakelite——Totally Enclosed

T-Rated, as Indicated

No.	Description	Amperes 125V.	Amperes 250V.	Std. Pkg.	Ctn.	List Price Per 100
	Brown					
1311	Single Pole	10T	5	100	10	$55.50
1312	Double Pole	10	10	10	2	105.00
1313	Three Way	10T	5	50	10	76.00
1314	Four Way	5T	2	10	2	215.00
	Ivory					
1411	Single Pole	10T	5	50	10	59.50
1412	Double Pole	10	10	10	2	109.00
1413	Three Way	10T	5	30	10	80.00
1414	Four Way	5T	2	10	2	219.00
	Single Pole, Momentary Contact					
	Brown					
1311-MO	Normally Open ...	6	3	10	2	$172.00
1311-MC	Normally Closed ..	6	3	10	2	172.00
	Ivory					
1411-MO	Normally Open ...	6	3	10	2	179.00
1411-MC	Normally Closed ..	6	3	10	2	179.00



1493

RESIDENTIAL TYPE

Bakelite—Totally Enclosed

No.	Description	Amperes 125V.	Amperes 250V.	Std. Pkg.	Ctn.	List Price Per 100
	Brown					
1391	Single Pole ...	10	5	100	10	$39.00
1393	Three Way ...	10	5	50	10	49.80
	Ivory					
1491	Single Pole ...	10	5	50	10	42.90
1493	Three Way ...	10	5	30	10	53.50



1311-L

LOCK TYPE

Single Pole and Three-Way Switches have polished metal tops. Double Pole and Four-Way Switches have bakelite tops. One key furnished with each Lock Switch.

No.	Description	Amperes 125V.	Amperes 250V.	Std. Pkg.	Ctn.	List Price Per 100
1311-L	Single Pole	10T	5	100	10	$130.00
1312-L	Double Pole	10	10	10	2	193.00
1313-L	Three Way	10T	5	50	10	157.00
1314-L	Four Way	5T	2	10	2	301.00
1498	Key for 1311-L and 1313-L. ..		..	1	..	19.50
1499	Key for 1312-L and 1314-L. ..		..	1	..	19.50

SINGLE CONVENIENCE OUTLETS

Parallel Slots—Double Grip Contacts

Rating—15 Amperes, 125 Volts; 10 Amperes, 250 Volts



1320



1327



1341

No. Brown	Description	Brown Std. Pkg.	Brown Ctn.	Ivory Std. Pkg.	Ivory Ctn.	List Price Per 100 Brown	List Price Per 100 No.	List Price Per 100 Ivory
1320	Single Outlet	100	10	100	10	$19.50	1420	$27.30
1341	Pilot Light Outlet ..	30	10	20	10	31.20	1441	39.00
1327	Insulating Adapter .	50	10	30	10	13.00	1427	20.50

RADIO OUTLETS

CAP AND BOX DIVIDERS



1322



1323



1346

Outlet for antenna and ground connections can be assembled in combination with switches, convenience outlets or other P&S-Despard devices. Cap blades are set at an angle to prevent plugging in power outlets. Install No. 1346, box divider, to keep antenna and ground wires separate from any power circuit in same box.

No. Brown	Description	Std. Pkg.	Ctn.	List Price Per 100 Brown	List Price Per 100 No.	List Price Per 100 Ivory
1322	Radio Outlet	10	2	$51.00	1422	$56.50
1323	Radio Cap, 9/32" Cord Hole..	10	2	18.60	1423	22.40
1346	Box Divider for 1½", 2" or 2½" Switch Boxes	10	5	33.50	..	..

NOTE—When installing P&S-Despard devices, with the exception of duplex and triplex convenience outlets, it is necessary to use mounting straps. The correct style of mounting strap is furnished, without charge.

PILOT AND NIGHT LIGHTS

With Metal Hood and Reflectors



1340

Each night light and pilot light is furnished complete with S-6, 6 Watt, 120 Volt lamp and metal reflector or hood.

Rating—75 Watts, 125 Volts



1339

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
	Night Lights with Clear Lamps			
1339	Chromium Plated Reflector	30	10	$113.00
1339-B	Brush Brass Reflector	30	10	113.00
	Pilot Lights with Red Lamps			
1340	Chromium Plated Hood	30	10	113.00
1340-B	Brush Brass Hood	30	10	113.00

NOTE—When above Night Lights and Pilot Lights are desired without lamps specify regular catalog number with suffix "LL." When Pilot Lights are desired with Clear Lamps, specify regular catalog number with suffix "CL."

NOTE—When installing the above devices it is necessary to use mounting straps. The correct style of mounting strap is furnished, without charge, packed with each plate.



1377

FLUSH PILOT LIGHTS

Furnished complete with S-6, 6 Watt, 120 Volt Clear Lamp and Red Jewel.

Rating—75 Watts, 125 Volts

1376	Single Pilot Light for use in Single Vertical Opening Plate	30	10	$113.00
1377	Combination Pilot Light for use with Switch or Outlet	30	10	113.00

NOTE—Nos. 1376 and 1377 are furnished complete with necessary mounting straps. When desired without lamps, specify regular catalog numbers with suffix "LL."

For assembly in combination with switches, pilot lights or other P&S-Despard devices—Double, wide contacts grip both sides of the plug cap fingers—Spring at bottom far removed from arcing point.

P.&S. DESPARD WIRING DEVICES



1375

NEON PILOT LIGHT

Long life, many thousand hours of use. Assured cold. The neon lamp gives off no heat. Ideal for all types of pilot applications.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
1375	Brown	30	10	$86.00
1475	Ivory	30	10	91.00

BELL PUSH AND BLANK INSERT



1344

Bell Push for 6 to 12 Volt Circuits can be assembled in same strap with P&S-Despard switch, outlet or night light. Blank Insert may be used to fill unused openings in plates—is made with knock-out which can be punched through for use as cord hole or telephone outlet.



1345

1344	Bell Push, Brown Bakelite	20	10	$30.30
1444	Bell Push, Ivory	10	5	36.10
1345	Blank Insert, Brown Bakelite	10	5	12.70
1445	Blank Insert, Ivory	10	5	20.50

MOUNTING STRAPS



1347



1348



1354

The correct style of mounting strap is packed with each P&S-Despard plate, but may be ordered separately. Specify catalog numbers shown below.

1347	Single Opening	50	10	$10.70
1348	Three Openings	50	10	10.70
1354	Appliance Stray	500	100	3.90



1363

METAL BOX COVERS

Furnished complete with necessary mounting straps.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
1361	Single Opening Round Cover—3¼" Box	100	10	$20.50
1362	Single Opening Round Cover for 4" Box	100	10	23.50
1363	Two Opening Round Cover for 4" Box	50	10	28.50



1321

ATTACHMENT PLUG CAPS

Parallel Blades

Rating—15 Amperes, 125 Volts; 10 Amperes, 250 Volts.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100 Brown	No.	Std. Pkg.	Ctn.	List Price Per 100 Ivory
		Bakelite						
1321	9/32" Cord Hole	100	10	$15.60	1421	50	10	$18.50
1326	Polarized, 9/32" Cord Hole	100	10	15.60	1426	50	10	26.50
		Black Rubber						
DR	Two-Piece, 5/16" Cord Hole	100	25	24.40	..	..	..	..



1330

NAME PLATE

For use with all P&S-Despard plate openings and consists of a rustproof frame, transparent window and white card.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
1330	Name Plate (Stainless Steel)	30	10	$20.50



1815-D

FLUSH TUMBLER SWITCHES

SPECIFICATION TYPE

All Bakelite—Totally Enclosed

T-Rated, as Indicated

1. Sturdy—Totally enclosed bakelite body.
2. Contact blades designed to reduce arc to minimum. Blades are assembled with two laminated bakelite discs which act as a further arc snuffer and terminal guide.
3. Terminals—Sturdy, one-piece. Easy to wire, large head screws for wire up to No. 10.
4. Cover securely anchored in four places.
5. Small size allows more wiring room in box.

No.	Color	Description	Amperes 125 V.	Amperes 250 V.	Std. Pkg.	Ctn.	List Price Per 100
1815-D	Brown	Single Pole	10T	5	100	10	$55.00
1825-D	Brown	Double Pole	10	10	50	10	105.00
1935-D	Brown	Three Way	10T	5	50	10	76.00
1844-D	Brown	Four Way	5T	2	10	2	215.00
1915-D	Ivory	Single Pole	10T	5	50	10	59.50
1925-D	Ivory	Double Pole	10	10	10	2	109.00
1935-D	Ivory	Three Way	10T	5	30	10	80.00
1944-D	Ivory	Four Way	5T	2	10	2	219.00
		Single Pole, Momentary Contact					
1815-DMC	Brown	Normally Closed	6	3	10	2	178.50
1815-DMO	Brown	Normally Open	6	3	10	2	178.50
1915-DMC	Ivory	Normally Closed	6	3	10	2	185.50
1915-DMO	Ivory	Normally Open	6	3	10	2	185.00

Dimensions of bakelite bodies—Single Pole and Three Way, $1\frac{33}{64}$x$\frac{29}{32}$x$1\frac{3}{16}$" deep; Double Pole and Four Way, $1\frac{1}{2}$x$\frac{7}{8}$x$1\frac{5}{32}$" deep.



7301

GENERAL PURPOSE TYPE

All Bakelite—Totally Enclosed—T-Rated

Torsionally pre-loaded contacts for long life, smooth action. Give exceptional performance on type C lamp loads. Positive kick-off—easy to wire. Large head binding screws conveniently located on compact body. Plaster ears of break-off washer type. Meets federal specification W-S-896 and conforms to REA requirements. Rating: 10 Amps., 125 Volts T; 5 Amps., 250 Volts.

No.	Color	Description	Std. Pkg.	Ctn.	List Price Each
7301	Brown	Single Pole	100	10	$44.00
7301-1	Ivory	Single Pole	100	10	49.00
7303	Brown	Three Way	50	10	57.50
7303-1	Ivory	Three Way	50	10	81.50

Dimensions of bakelite bodies—Length 1½", width 1⅛", depth 1⅛".



1231



1233
Back View

SWITCHES FOR NO. 1375, 3¼" AND 4" BOXES

10 Ampere Type

T-Rated and Non-T-Rated

Modern—Compact—

Smart Appearing

No.	Cover	Description	Std. Pkg.	Ctn.	List Price Per 100
1131	3¼"	Single Pole, Brown	50	10	$72.00
1133	3¼"	Three Way, Brown	50	10	84.00
1231	3¼"	Single Pole, Black (T-rated)	50	10	87.00
1233	3¼"	Three Way, Black (T-rated)	50	10	98.50
1131-RC	S.P. Oil Burner, Red		50	10	82.00
1141	4"	Single Pole, Brown	50	10	84.00
1143	4"	Three Way, Brown	50	10	93.00
1241	4"	Single Pole, Black (T-rated)	50	10	98.50
1243	4"	Three Way, Black (T-rated)	50	10	106.00

P&S DESPARD WIRING DEVICES

DUPLEX—TRIPLEX CONVENIENCE OUTLETS


13202

Parallel Slots—Double Grip Contacts

Have double, wide contacts that grip both sides of the cap fingers—Spring at bottom far removed from arcing point—Large binding screws, ample for No. 10 wire, spaced for easy wiring—Break-off plaster ears. For two-circuit outlets, specify No. 13202-Y or No. 14202-Y.

Rating—15 Amperes, 125 Volts; 10 Amperes, 250 Volts

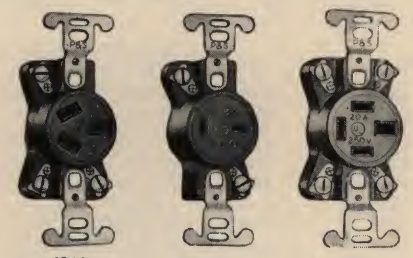

13203

No. Brown	Description	Std. Pkg.	Ctn.	Std. Pkg.	Ctn.	List Price Per 100 Brown	No.	Ivory
13202	Duplex	100	10	50	10	$31.50	14202	$38.50
13203	Triplex	100	10	50	10	41.00	14203	46.80
13202-Y	Duplex 2-cir.	100	10	50	10	41.50	14202-Y	48.50

NOTE—When P&S-Despard Convenience Outlets are used with non-insulated metal plates, we recommend the use of Insulating Adapters, Nos. 1327 and 1427, which are furnished as standard with "V" and "R" opening plates.

POLARIZED OUTLETS

All Bakelite
A Matched Line

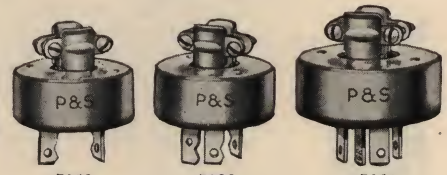

6810 3-Wire — 5566 2-Wire — 7250 4-Wire

No.	Description	—Amperes— 125V.	250V.	Std. Pkg.	Ctn.	List Price Per 100
5552	Two-Wire	..	20	30	10	$139.00
5566	Two-Wire	15	10	30	10	80.00
6051*	Three-Wire	15	10	50	10	158.00
6810*	Three-Wire	..	20	30	10	175.00
7250*	Four-Wire	..	20	20	10	217.00

*Add suffix "G" for grounded receptacles.

POLARIZED CAPS

Completely Armored Bakelite. A Matched Line



7058 2-Wire — 7089 3-Wire — 7251 4-Wire

No.	Description	Cord Dia. Inches	Amperes 125V	250V	Std. Pkg.	Ctn.	List Price Per 100
7056	Two-Wire, Tandem Blades ...	.250 562	15	10	50	10	$53.00
7057	Two-Wire, Parallel Blades ...	.250-562	15	10	50	10	53.00
7058	Two-Wire, Right Angle Blades	.250-625	..	20	30	10	110.00
7092	Two-Wire, Right Angle Blades	.250-562	15	10	30	10	93.00
7055*	Three-Wire	.250-562	15	10	50	10	81.00
7089*	Three-Wire	.250-625	..	20	20	10	141.00
7251*	Four-Wire	.250-750	..	20	20	10	168.00

*Add suffix "G" for grounded caps.

RANGE SURFACE RECEPTACLE


3826

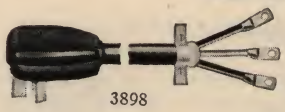
Plenty of wiring room between cable clamp and terminal block so that pliers can be used to position cable.
Large radius on ends permits cap to be inserted easily.

Mounting screw retained in cover, will not fall out during installation. Centers itself—immediately—starts easily.

Rating—50 Amps., 250 Volts

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
3826	Surface Receptacle only	10	2	$223.00
3837	Grounding Strap for 3826.....	10	2	68.00

P&S RUBBER CORD SETS


3898

With Non-Separable Bakelite Caps Rating—No. 3839—35 Amps., 250 Volts. Nos. 3899 and 3899-B—50 Amps., 250 Volts

Length—36 Inches

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
3898	Two No. 8 and One No. 10 Wires...	10	2	$275.00
3899	Two No. 6 and One No. 8 Wires....	10	2	308.00
	Length—48 Inches			
3899-B	Two No. 6 and One No. 8 Wires....	10	2	460.00

PORCELAIN-BASE DEVICES

No Boxes, No Connectors, No Splicing
No Soldering or Taping



8661 — 8666 — 8667 — 8668 — 8669 — 8670

Have buss bars for third wire or thru feed connections. Knockouts for knob and tube wiring. Take No. 12 or 14 standard nonmetallic sheathed cable, 2 or 3 wire. Width of devices permits mounting on 2x4 studs. Large wiring chambers for cross-overs. The "8861" series not recommended for work where extremely moist or dusty conditions prevail. Recommend the "661" series of PORCELAIN-BASE devices where this condition exists.

All Current Carrying Parts Mounted on Porcelain Bases
Rating—5 Amps., 250V. 10 Amps. T, 125V.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
661	Single Pole Feed-thru Switch.....	50	10	$97.00
663	Three-Way Feed-thru Switch.....	50	10	105.00
	Rating—660 Watts, 250 Volts			
666	Keyless Lampholder	50	10	88.00
668	Rosette	50	10	81.00
	Rating—250 Watts, 250 Volts			
667	Pull Lampholder	50	10	105.00
	Rating—10 Amps., 250V. 15 Amps., 125V.			
670	Duplex Convenience Outlet	50	10	69.00
669	Junction Box	50	10	81.00

Approved by Underwriters' Laboratories.

ALL-PLASTIC DEVICES

All Current Carrying Parts Mounted on Arc-Resisting Urea Bases
Rating—5 Amps., 250V. 10 Amps. T, 125V.

8661	Single Pole Feed-thru Switch.....	50	10	$97.00
8663	Three-Way Feed-thru Switch	50	10	105.00
	Rating—660 Watts, 250 Volts			
8666	Keyless Lampholder	50	10	88.00
8668	Rosette	50	10	81.00
	Rating—250 Watts, 250 Volts			
8667	Pull Lampholder	50	10	105.00
	Rating—10 Amps., 250V. 15 Amps., 125V.			
8670	Duplex Convenience Outlet	50	10	69.00
8669	Junction Box	50	10	81.00

P&S WIRING DEVICES

PORCELAIN RECEPTACLES



4026-2

One-Piece Pull—With Shadeholder Groove

P&S pull receptacles are of one-piece construction. Simplified mechanism is built-in, eliminating the necessity of removing the interior for wiring. Binding screws have large heads for easy wiring.

Rating—250 Watts, 250 Volts

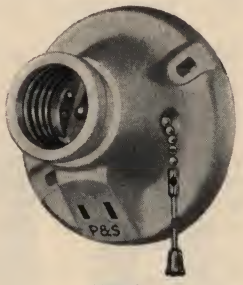
For 3¼-Inch Outlet Boxes

No.	Description	Std. Pkg.	List Price Per 100
4026	Insulated Chain	50	$65.30
4026-2	Short Chain and Long Cord	50	59.50

For 4-Inch Outlet Boxes

4046	Insulated Chain	50	$70.00
4046-2	Short Chain and Long Cord	50	63.50

One-Piece—Pull—With Shadeholder Groove and Convenience Outlet



5026-2

Convenience outlet is connected internally, eliminating extra wires, soldering and taping.

Rating—250 Watts, 250 Volts; Outlet, 15 Amperes, 125 Volts; 10 Amperes, 250 Volts.

For 3¼-Inch Outlet Boxes

5026	Insulated Chain	50	$88.50
5026-2	Short Chain and Long Cord	50	82.50

For 4-Inch Outlet Boxes

5046	Insulated Chain	50	$101.00
5046-2	Short Chain and Long Cord	50	93.50

Dimensions: For 3¼" Boxes—Diameter of Base, 3⅝"; Height overall, 2¼"; Screw Hole Spacing, 2¾". For 4" Boxes—Diameter of Base, 4$\frac{11}{16}$"; Height Overall, 2¼"; Screw Hole Spacing, 3½".



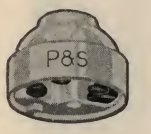
41

One-Piece—Keyless—With Shadeholder Groove

Rating—660 Watts, 250 Volts

No.	Description	Outside Diam.	Overall Hgt.	Screw Hole Spac.	Std. Pkg.	List Price Per 100
41	For 3¼-Inch Box	3¼"	1⅛"	2¾"	100	$29.00
110	For 4-Inch Box	4½"	1$\frac{25}{32}$"	3½"	50	35.50

TWO-SCREW CAPS



O-PA



O-PC



O-PY

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
O-PA	Pendent for Reinforced Cord	100	10	$26.40
O-PY	Pend. with Grip for ⅜ to ½" Cord	100	10	51.50
O-PC	Straight Nipple—Brass, ⅛-Inch	100	10	44.90
O-PE	Straight Nipple—Brass, ⅜-Inch	100	10	48.80
O-PZ	Straight Nipple—Brass, ½-Inch	100	10	68.50
O-PU	90-Degree Angle—Brass, ½-Inch	100	10	Tem. Disc.

NOTE—Standard finish on chain is nickel flash.

TWO-SCREW BODIES

Rating: Key and Pull—250 Watts, 250 Volts; Keyless—660 Watts, 250 Volts



O-47



O-27

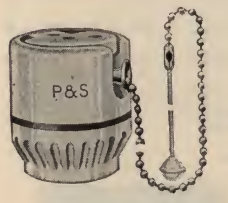


O-26

O-26	Key	100	10	$54.50
O-27	Keyless	100	10	38.10
O-47	Pull, with Insu. Chain and Tassel	100	10	96.50

NOTE—Standard finish of brass caps is nickel flash.

LAMP HOLDERS



998



4100



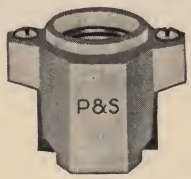
4101

No. 998—For outlet boxes, metal signs and lighting units with 1½" throat. Rating 250 watts, 250 volts. Height 2⅛", depth 1$\frac{3}{16}$". Punch required 1$\frac{7}{16}$" with short chain, long cord. Standard package 100, carton 10. List price per 100.....$58.60

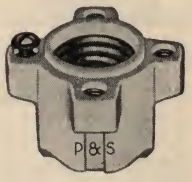
No.	Watts	Volts	Descrip.	Std. Pkg.	Ctn.	List Price Per 100
4100	660	250	Screw terminal	250	25	$29.00
4101	660	250	Screw terminal enclosed	250	25	33.50



5403



54



5410

Bronze screws for holding metal parts, heavy terminals, electrolytic copper contact shells and phospor bronze spring center contacts. Bronze screws and studs.

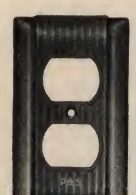
5403	660	660	Spring Studs and Screws	100	25	$32.20
54	660	610	Two Mounting Screws	100	25	32.20
5410	660	250	Four Mounting Screws	100	25	43.50

NEW UNILINE WALL PLATES

BAKELITE BROWN AND IVORY FOR P&S DESPARD LINE



No. 91071



No. 91101



No. 91081



No. 92091



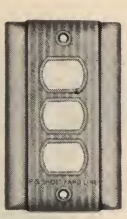
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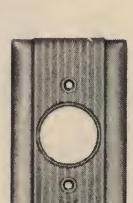
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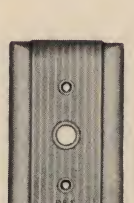
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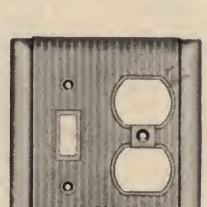
No. 92031



No. 91111



No. 92181

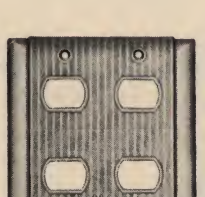


No. 92532

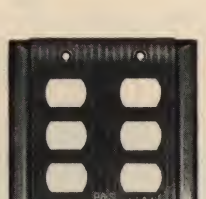
No. Brown	No. Ivory	List Price Per 100 Brown	List Price Per 100 Ivory	Description	Brown Std. Pkg.	Brown Car-ton	Ivory Std. Pkg.	Ivory Car-ton
				Single Gang				
91041	92041	$17.50	$22.00	One Opening (Vert.)	100	10	100	10
91011	92011	17.50	25.00	One Opening (Horz.)	100	10	100	10
91021	92021	17.50	22.00	Two Openings	50	10	50	10
91031	92031	17.50	22.00	Three Openings	30	10	30	10
				Two Gang				
91012	92012	33.50	46.00	Two Openings (Horz.)	50	10	30	10
91022	92022	46.00	58.50	Four Openings	30	10	30	10
91032	92032	64.50	77.00	Six Openings	20	10	20	10
91052	92052	46.00	58.50	2 Openings in 1 Gang, Horz. Opening in Other	30	10	30	10
				Three Gang				
91023	92023	91.50	109.00	Six Openings	20	10	20	10
				Tumbler Switch Plates				
91071	92071	13.50	18.50	1 Gang for 1 Switch	100	10	50	10
91072	92072	26.00	38.50	2 Gang for 2 Switches	50	5	25	5
91073	92073	40.50	63.50	3 Gang for 3 Switches	30	3	15	3
91074	92074	73.00	93.50	4 Gang for 4 Switches	25	3	15	3



No. 91052



No. 92022



No. 91032

No. Brown	No. Ivory	List Price Per 100 Brown	List Price Per 100 Ivory	Description	Brown Std. Pkg.	Brown Car-ton	Ivory Std. Pkg.	Ivory Car-ton
				Convenience Outlet Plates				
91091	92091	$17.50	$22.00	1 Gang for Single	100	10	50	10
91101	92101	13.50	18.50	1 Gang for Duplex	100	10	50	10
91102	92102	57.50	67.50	2 Gang for Duplex	25	5	25	5
91111	92111	35.50	41.50	1 Gang for 7438, 30 Amp.	30	10	30	10
				Combination Plates				
91532	92532	34.50	46.00	2 Gang, Switch and Duplex Outlet	10	2	10	2
91543	92543	73.00	91.50	3 Gang, 2 Switches and Duplex Outlet	10	2	10	2
				Push Button, Blank and Telephone Plates				
91081	92081	17.50	23.00	1 Gang Push Button	100	10	50	10
91121	92121	24.00	29.00	1 Gang Blank	50	10	30	10
91122	92122	73.00	84.50	2 Gang Blank	25	5	15	5
91181	92181	23.00	29.00	1 Gang Telephone, 19/32" Cord Hole	50	10	30	10

Note: Nos. 91121, 91122, 92121 and 92122 are furnished with necessary mounting straps.

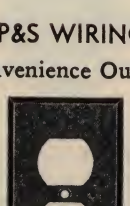
Plate Screws: All brown bakelite plates are furnished with brown plated screws; ivory plates are furnished with ivory enameled screws.

FOR P&S WIRING DEVICES

Convenience Outlet Plates



98091



98101



98102

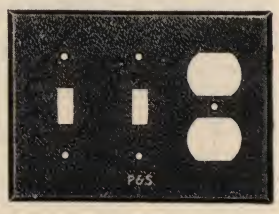
Brown-X and **Ivory-X** plates have a multiple coat of baked-on insulating enamel. Closely resembling bakelite, will not warp or crack, very satisfactory for painting.

No.	Description	Std. Pkg.	Carton	List Price Per 100
	Brown--X			
98091	1 Gang for Single Outlet	100	10	$16.50
98101	1 Gang for Duplex Outlet	100	10	13.50
98102	2 Gang for 2 Duplex Outlets	50	5	26.00
	Ivory-X			
99091	1 Gang for Single Outlet	100	10	23.00
99101	1 Gang for Duplex Outlet	100	10	14.50
99102	2 Gang for 2 Duplex Outlets	50	5	29.00

FOR P&S WIRING DEVICES

Combination Plates

Brown-X and **Ivory-X** plates have a multiple coat of baked-on insulating enamel. Closely resembling bakelite, they will not warp or crack and are very satisfactory for painting.

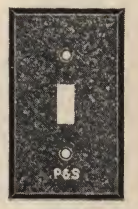


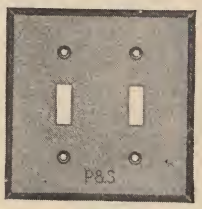
99543

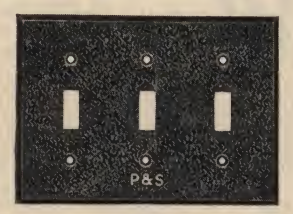
No.	Description	Std. Pkg.	Carton	List Price Per 100
	Brown-X			
98512	2 Gang, 1 Tumbler Switch and Single Outlet	10	2	$34.50
98532	2 Gang, 1 Tumbler Switch and Duplex Outlet	10	2	34.50
98543	3 Gang, 2 Tumbler Switches and Duplex Outlet	10	2	50.00
	Ivory-X			
99512	2 Gang, 1 Tumbler Switch and Single Outlet	10	2	43.50
99532	2 Gang, 1 Tumbler Switch and Duplex Outlet	10	2	43.50
99543	3 Gang, 2 Tumbler Switches and Duplex Outlet	10	2	59.50

FOR P & S WIRING DEVICES

TUMBLER SWITCH PLATES


98071


99072


98073

No.	List Price Per 100 Brown	No.	List Price Per 100 Ivory	Description	Std. Pkg.	Car-ton
98071	$13.50	99071	$14.50	1 Gang for 1 Switch	100	10
98072	25.00	99072	29.00	2 Gang for 2 Switches	50	5
98073	38.50	99073	46.00	3 Gang for 3 Switches	30	3
98074	50.00	99074	75.00	4 Gang for 4 Switches	25	3
98075	77.00	99075	106.00	5 Gang for 5 Switches	20	2
98076	90.50	99076	125.00	6 Gang for 6 Switches	15	2

PUSH BUTTON, BLANK AND TELEPHONE PLATES


99121


98081


98181

98121*	$23.00	99121	$26.00	1 Gang Blank Plate	50	10
98181*	20.00	99181	23.00	1 Gang, Cord Hole, ⅜" Metal Ferrule	50	10
98081	18.50	99081	22.00	1 Gang for 1 Push Button Switch	100	10

*NOTE—Nos. 98181 and 99181 have screw hole spacing 3-9/32" for mounting directly on box. Nos. 98121 and 99121 are furnished with mounting straps.

TWO GANG


98011


99021


98031


98041

98011	$16.50	99011	$19.50	One opening (horz.)	100	10
98021	16.50	99021	19.50	Two openings	50	10
98031	16.50	99031	19.50	Three openings	30	10
98041	16.50	99041	19.50	One opening (vert.)	100	10

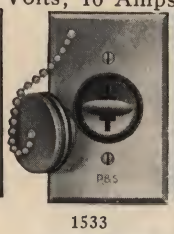
P & S WEATHERPROOF WIRING DEVICES
FOR SINGLE GANG INSTALLATION

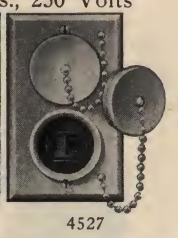
Outlet Rating—15 Amps., 125 Volts; 10 Amps., 250 Volts


4521


4525

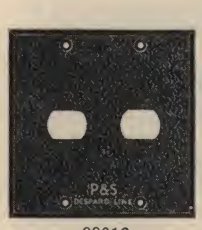

4526

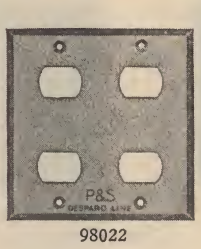

1533


4527

No.	Description	Switch Amps. 125 V.	Switch Amps. 250 V.	Std. Pkg.	List Price Per 100
4521	Single Pole Switch	10T	5	10	$225.00
4522	Double Pole Switch	10T	10	10	282.00
4523	Three Way Switch	10T	5	10	250.00
4524	Four Way Switch	5T	2	5	514.00
4525	Two Single Pole Switches	10T	5	10	319.00
4526	Single Pole Switch and Outlet	10T	5	10	322.00
4527	Duplex Outlet	...	..	10	322.00
4528	Protective Cap for Nos. 4526, 4527	...	..	10	56.00
1533	Single Outlet (T-slot)	...	..	10	252.00
1536	Protective Cap for No. 1533	...	..	10	72.00

TWO GANG

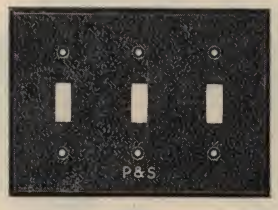

99012

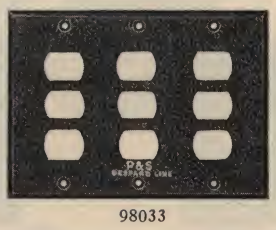

98022


99032

No.	List Price Per 100 Brown	No.	List Price Per 100 Ivory	Description	Std. Pkg.	Car-ton
99012	$33.00	98012	$39.00	Two openings (horz.)	10	2
99022	40.50	98022	51.00	Four openings	10	2
99032	40.50	98032	51.00	Six openings	10	2
99042	33.50	98042	39.50	Two openings (vert.)	10	2
99052	46.00	98052	55.00	Two openings in one gang, one in other	10	2

THREE GANG


98013


98033

98013	$51.00	99013	$57.50	Three open. (horz.)	10	2
98023	55.00	99023	71.00	Six openings	10	2
98033	55.00	99033	68.50	Nine openings	10	2
98043	51.00	99043	57.50	Three open. (vert.)	10	2

NOTE—Wall plates listed above are supplied complete with the necessary straps for mounting P&S-Despard devices.

SINGLE GANG


97011


97021

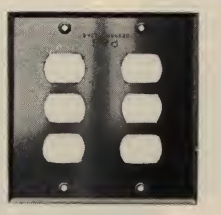

97031


97131

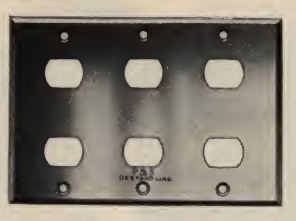
Chrome-X stainless plates are made of .040" stainless steel. Their soft, semi-polished, silver-like finish will last indefinitely.

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
97011	One opening (horz.)	100	10	$38.50
97021	Two openings	50	10	38.00
97031	Three openings	30	10	38.00
97041	One opening (vert.)	100	10	38.00
97131	Two openings, 1 insulating adapter	10	2	41.50
97141	Two openings, 2 insulating adapters	10	2	52.00

CHROME X—STAINLESS STEEL P & S DEVICES
TWO AND THREE GANG



97032



97023

Two Gang

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
97072	Two openings (horz.)	10	2	$84.50
97022	Four openings	10	2	105.00
97032	Six openings	10	2	112.00
97042	Two openings (vert.)	10	2	84.50

Three Gang

97013	Three openings (horz.)	10	2	121.00
97023	Six openings	10	2	146.00
97033	Nine openings	10	2	146.00
97043	Three openings (vert.)	10	2	121.00

NOTE—When P&S-Despard outlets are used with non-insulated metal plates, we recommend the use of Insulating Adapters. Nos. 97131 and 97141 are regularly supplied with brown bakelite adapters—for ivory, specify regular number with suffix "I."
NOTE—Wall plates listed above are supplied complete with the necessary straps for mounting P&S-Despard devices.

BRASS PLATES FOR P & S-DESPARD DEVICES
STRUCK-UP .040" METAL



94011



94021



94031

Single Gang

Brush Brass No.	Description	Std. Pkg.	List Price Per 100
94011	One opening (horizontal)	100	$58.50
94021	Two openings	50	58.50
94031	Three openings	30	58.50
94041	One opening (vertical)	100	58.50
94131	Two openings, 1 insulating adapter	10	58.50
94141	Two openings, 2 insulating adapters	10	58.50

Two Gang

94012	Two openings (horizontal)	10	116.00
94022	Four openings	10	116.00
94032	Six openings	10	116.00
94042	Two openings (vertical)	10	116.00

(Available up to 3-Gang)

STRUCK-UP .060" METAL
Single Gang

96011	One opening (horizontal)	100	$71.00
96021	Two openings	50	71.00
96031	Three openings	30	71.00
96041	One opening (vertical)	100	71.00
96131	Two openings, one insulating adapter	10	70.00
96141	Two openings, two insulating adapters	10	70.00

Two Gang

96012	Two openings (horizontal)	10	141.00
96022	Four openings	10	141.00
96032	Six openings	10	137.00
96042	Two openings (vertical)	10	141.00

(Available up to 3-Gang)

SAFEWAY RUBBER CORD CONNECTORS



15 Amps., 125 Volts; 10 Amps., 250 Volts

No.	Description	Std. Pkg.	Ctn.	List Price Per 100
1500	Cord connector, parallel	10	100	$0.90
1502	Cord connector, par., cord grip	10	100	1.25
1503	Cord connector, 2-wire "T" polarity, cord grip	10	100	1.35
1504	Combination, parallel	5	50	1.45



SAFEWAY RUBBER DUPLEX RECEPTACLE

800	Safeway rubber duplex receptacle	5	25	$1.40



PROTEX RUBBER KEY AND KEYLESS SOCKET

700	Pendant with 7/16" cord hole, push through key	10	100	$1.60
703	3/8" bushing, push through key	10	100	1.90
710	Pendant with 7/16" cord hole, keyless	10	100	.80
717	Cord grip pendant, keyless	10	100	1.15
730	Pendant with 7/16" cord hole, turn button	10	100	1.20

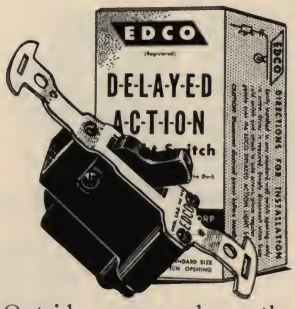


SAFEWAY RUBBER CAPS

15 Amps., 125 Volts; 10 Amps., 250 Volts

1400	Plug cap, parallel	10	100	$0.55
1403	Plug cap, 3-wire polarity	10	100	.75
1404	Plug cap, parallel, cord grip	10	100	.90
1405	Plug cap, tandem, cord grip	10	100	1.00
1407	Plug cap, 3-wire polarity, cord grip	10	100	1.10
1408	Separable swivel plug	10	100	2.20
1416	Right angle cap, 2-wire "T" polarity	10	100	1.35
1420	Protex Junior appliance cap, finger grip; 5/16" hole	10	100	.25
1421	Protex Junior appliance cap, finger grip; 7/16" hole	10	100	.25

EDCO DELAYED ACTION LIGHT SWITCH
60 Seconds Extra Light—After Turning Off Switch



Won't leave you standing at the switch in darkness. Allows plenty of light to guide you safely for a distance of about 75 feet—then the light goes out.
For within or outside the home, apartments, hotels, stores, office buildings, industrial plants and on the farm. You can walk through hallways—up or down stairs, basement or outside (after you have turned out the lights) and never stumble or "bark" a shin!
Outside you can leave the house, get down the porch steps, or out to the garage with plenty of light to guide you safely.
Protects watchman on rounds—gives light when "locking up"—provides lighted exit—guards against accident.
Specifications: Molded parts are bakelite and neoprene stampings and screws are yellow brass, phosphor bronze and cadmium plated steel. Flush toggle—single pole. Capacity 10 amps. at 125 volts, 5 amps. at 250 volts. Inspected and approved by Underwriters' Laboratories, Inc.
Edco Switch—List price each **$1.98**

McKINLEY RECEPTACLE OUTLET

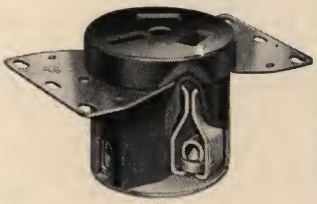
FOR SURFACE MOUNTING



60

Three wire 50 amp., 250 volt for electric range connection and industrial applications. Box base cadmium finish, cover ivory enamel. Enclosure entirely of metal, non-breakable, solderless terminals, "protected" ample wiring space, convenient and secure binding-posts. Mechanism in bakelite housing. Length 5½"—width 2½"—depth 2½". Knockouts—Combination ¾", 1" at one end and at back for non-metallic cables and for 1" conduit. Cable clamp handy to get at and easy to transfer from the end knockout to the button knockout. Listed Underwriters Laboratories, Inc.

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
60	Receptacle outlet	2	10	**$215.00**



53

Made of bakelite. 3 wire, 5 amp., 250 volts. Solderless terminals. Either flush or surface mounting. Electric range or industrial outlets. Fits all standard 3 wire caps of 30 amp. and 50 amp., 250 volts. Fits caps of all standard cord sets for electric ranges. Listed Underwriters Laboratories, Inc.

Shows the heavy contacts and the binding terminals which are convenient, secure and "protected."
The yoke has extra width with correctly placed elongated mounting holes thus providing the advantage of a fit to **both** single gang and 2 gang plaster covers. There are also screw holes properly spaced to attach our 1 gang plates (Nos. 1 and 2), and our covers (Nos. 7, 8, 9, 10).

53	Receptacle	2	10	**$1.70**



The grounding feature cannot be incorporated in a 1-gang plate (No. 1 or No. 2). Use a 4" or 4 11/16" square box 1½" or more deep, with plaster cover raised ½" or more for one flush device.

No.	Dimensions	Plate	Ctn.	Std. Pkg.	List Price Each
1	2¾" x 4½"	Brass	2	10	**$0.75**
2	2¾" x 4½"	Steel	2	10	**.30**



Using No. J plate a 4" square outlet box 1½" or more with 2 gang plaster cover raised ½", or more. Can also use 4 11/16" square outlet box 1½" or more with 2 gang plaster cover raised ½", or more. No grounding features.

3	4½" x 4"	Brass	2	10	**$1.00**
5	4½" x 4½"	Steel	2	10	**.90**

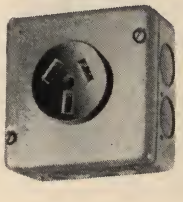
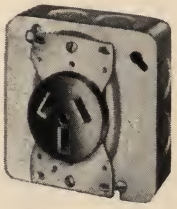


Illustration has cover (No. 7) without grounding feature (Note there are no slots in the cover). Use 4" square outlet box 1½" or more deep with No. 7 or No. 8 cover. Can use 4 11/16" square outlet box 2" or more deep with No. 9 or No. 10 cover.

No.	Description	Ctn.	Std. Pkg.	List Price Each
7	Steel, no grounding	2	10	**$0.30**
8	Steel, with grounding	2	10	**.60**
9	Steel, no grounding	2	10	**.35**
10	Steel, with grounding	2	10	**.65**



Illustrates standard outlet box with plaster cover. Suitable for flush installations. 4" square box 1½" deep or more, with ¾" knockouts. Suitable for non-metallic sheathed cable. With 1 gang plaster cover, raised ½".

AUTO HAND LIGHT



Plugs into Any Dashboard Cigarette Lighter

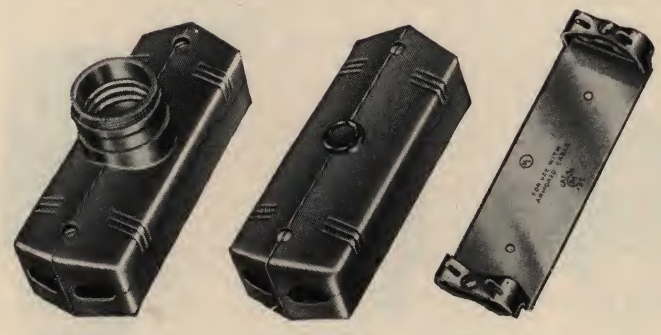
No. 2090-3 Auto handy light with GE No. 87 15 candlepower 6-75 bulb, guard, cigarette lighter plug, 12 ft. No. 20 cord block. Ctn. 5, Std. Pkg. 50, List Price per 100..**$112.00**

SURFACE WIRING DEVICES

For wiring garages, barns, cabins, attics, basements, any surface job. Base arc-resisting urea compound which resists carbonization under corrosive and moist conditions. Meets REA and federal specifications.



2620-1 2630-1 2651-1



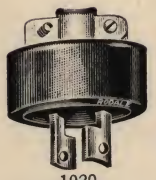
2655-1 2670-1 2690-6

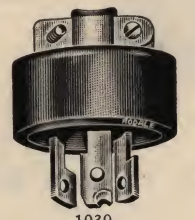
No.	Description	Ctn.	Std. Pkg.	List Price Each
2620-1	Double outlet with double contact. Brown. 10A, 250V; 15A, 125V	10	50	**$69.00**
2630-1	Single pole "T" rated switch. Brown. 5A, 250V; 10A, 125V	10	30	**97.00**
2633-1	Three way "T" rated switch. Brown 5A, 250V; 10A, 125V	10	20	**105.00**
2651-1	Pull chain lampholder with 3 ft. braided linen pull cord. Brown. 250W, 250V	10	30	**105.00**
2655-1	Keyless lamp-holder. Brown. 600W, 250V	10	50	**88.00**
2670-1	Junction box or rosette. Brown. 600W, 250V	10	30	**81.00**
2690-6	Armored cable clamp attachment ..	10	100	**26.00**
2691-6	Mounting bracket for back wiring. (Not illustrated)	20	400	**11.00**

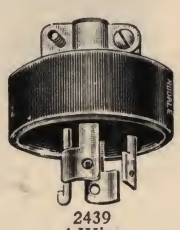
RODALE "TURN-TYTE" FLUSH RECEPTACLES

SINGLE INTERLOCKING INTERCHANGEABLE ATTACHMENT CAPS

Rubber or Armored with Metal Cord Clamp
Underwriters' Listed


1029
2-Wire


1039
3-Wire


2439
4-Wire

No.	O.D.	Wires	Amp.	Volts	Dia.	Cap	Ctn.	Std. Pkg.	List Price Each
1029	1½"	2	10 15	250 125	.156 to .625	Rubber	10	50	$0.50
1026	1½"	2	10 15	250 125	.156 to .625	Armored	10	50	.50
1229	1½"	2	20	250	.156 to .625	Rubber	10	50	.56
1226	1¾"	2	20	250	.156 to .625	Armored	10	50	.56
1039	1½"	3	10 15	250 125	.156 to .625	Rubber	10	50	.80
1036	1½"	3	10 15	250 125	.156 to .625	Armored	10	50	.80
1239	1¾"	3	20 3	250 10	.156 to .625	Rubber	10	50	1.20
1236	1¾"	3	20 10	250 575	.156 to .625	Armored	10	50	1.20
2439	2¼"	4	20 10	250 575	.312 to .750	Rubber	10	50	1.70
2436	2¼"	4	20 10	250 575	.312 to .750	Armored	10	50	1.70


2100
2-Wire


3100
3-Wire


2400
4-Wire

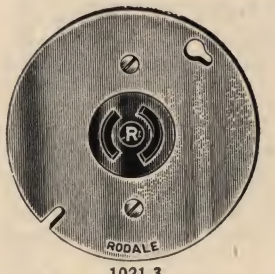
No.	O.D.	Wires	Amp.	Volts	Dia.	Cap	Ctn.	Std. Pkg.	List Price Each
2100	1½"	2	10 15	250 125	.156 to .500	Armored Bakelite	10	50	$0.70
2200	1¾"	2	20	250	.156 to .625	Armored Bakelite	10	50	.95
3100	1½"	3	10 15	250 125	.156 to .500	Armored Bakelite	10	50	1.40
3200	1¾"	3	20 10	250 575	.156 to .625	Armored Bakelite	10	50	2.40
2400	2¼"	4	20 10	250 575	.312 to .750	Armored Bakelite	10	50	2.50

SLATER DUPLEX RECEPTACLES

Type "T" Slot—15 Amps., 125 V., 10 Amps., 250 V.
Lifetime Use in Industrial or Residential Installation

No.	Description	Std. Pkg.	Ctn.	List Pr. Ea.
300	Side wired—brown bakelite	100	10	$0.34
300-1	Side wired—ivory	100	10	.38
303	Side wired—brown bakelite. No plaster ears	100	10	.31
303-1	Side wired—ivory. No plaster ears	100	10	.35

RODALE METAL COVER RECEPTACLES

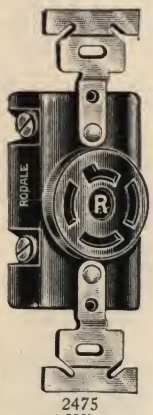

1021-3
2-Wire


1076
3-Wire

No.	Wire	Amp.	Volts	Metal Cover	Ctn.	Std. Pkg.	List Price Each
1021-3	2	10 15	250 125	3¼"	10	50	$0.72
1021-4	2	10 15	250 125	4"	10	50	.78
1221-3	2	20	250	3¼"	10	50	.78
1221-4	2	20	250	4"	10	50	.82
1076-3	3	10 15	250 125	3¼"	10	50	1.54
1276-3	3	20 10	250 575	3¼"	10	50	1.70
1076-4	3	10 15	250 125	4"	10	50	1.62
1276-4	3	20 10	250 575	4"	10	50	1.80
2476	4	20 10	250 575	4"	10	50	2.40


1020
2-Wire


1075
3-Wire


2475
4-Wire

No.	Wire	Amp.	Volts	Ctn.	Std. Pkg.	List Price Each
1020	2	10	250	10	50	$0.60
1220	2	20	250	10	50	.68
1075	3	10 15	250 125	10	50	1.40
1275	3	20 10	250 575	10	50	1.60
2475	4	20 10	250 570	10	50	2.20

STA-TITE APPLIANCE PLUG CAPS

Easy to Attach



No.	Description	Ctn.	List Price Per 1000
R211	Rubber cap	500	$110.00
F116	Female cord con. 5/16" cord hole	500	190.00



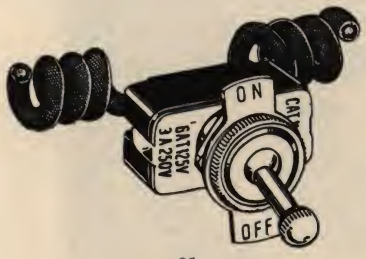
INDUSTRIAL PLUG CAPS

No.	Description	Ctn.	List Price Per 1000
R311	Round rubber (with disc)	500	$110.00
R511B	Rubber (disc)	500	130.00


21

McGILL LEVOLIER SWITCH
SINGLE CIRCUIT BAKELITE CASE—WIRE LEADS
SIZE 1"x1¼"x⅝" THICK

No.	—Stem— Dia.	Lgth.	—Amperes— 125V	250V	Ctn.	Std. Pkg.	List Price Per 100
21	13/32"	5/16"	3	1	10	100	$67.00



25

TOGGLE SWITCH
6 Amp., 125 Volt—3 Amp., 250 Volt

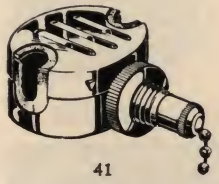
Individual control of lights in buses, airplanes; power control in appliances, tools, machines and fractional horse power motors. Bakelite case, wire leads. Size ½" thick, ½" wide, 1" long.

No.	—Stem— Dia.	Lgth.	Description	Ctn.	Std. Pkg.	List Price Per 100
25	15/32"	¼"	S.C., Wire Leads	10	100	$67.00
25-L	15/32"	¼"	S.C., w/sold. Lugs	10	100	67.00
27	15/32"	¼"	3-W., Wire Leads	10	100	86.00
27-L	15/32"	¼"	3-W., w/sold. Lugs	10	100	75.00
28	15/32"	¼"	2-C., Wire Leads	10	100	86.00
28-L	15/32"	¼"	2-C., w/sold. Lugs.	10	100	75.00


39

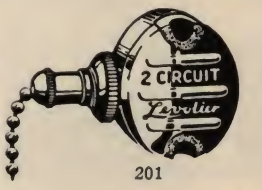
LINK TYPE SWITCH
6 Amp.—"T"—125 Volts; 3 Amp. 250 Volts

Permits its use in any chain fixture by removing the top link immediately below canopy ring in the chain and substituting the inconspicuous No. 39 switch easily and quickly.


41

SINGLE POLE, SINGLE CIRCUIT SWITCH
3 Amp.—"T"—125 V.; 3 Amp. 250 V.

⅝" thick, lever operated for positive control from any angle—Single pole, double break mechanism. Widely adaptable for conduit box and canopy mounting to incandescent or fluorescent lighting, and for FHP motor control. It is equipped with 6' cord, with bell at end, or plain lever. Bears the "T" rating of the Underwriters' Laboratories, Inc.



201

TWO-CIRCUIT 3 AMP. 125 VOLTS

Lever operated pull switch for floor lamps, table lamps and ceiling fixtures. Operates the PS25 and G30 three lite lamps. Overall dimensions are ⅞" thick, 1⅜" in diameter. Equipped with 6' cord with bell at end.

No. 300 Series—Three-Way 3 Amp. 125 Volts

Lever operated pull switch, designed to control one or more lights from two different points. Overall dimensions are ⅞" thick, 1⅜" in diameter. Equipped with 6' cord with bell at end. May be used as a reversing switch on fractional horse power motors.

No.	Circuit	Stem Dia.	Length	Ctn.	Std. Pkg.	List Price Per 100
39	With Mounting Link			10	100	$107.00
41	—	7/16"	3/16"	10	100	107.00
201	2	7/16"	3/16"	10	100	107.00
202	2	7/16"	⅜"	10	100	113.00
203	2	7/16"	¾"	10	100	113.00
301	3	7/16"	3/16"	10	100	118.00
302	3	7/16"	⅜"	10	100	123.00
303	3	7/16"	¾"	10	100	123.00
84	For 41, 201, 301, Series Levolier Switches			10	100	21.00

McGILL LEVOLIER SWITCHES


71

The thinnest 6 amp. "T," 125 volt—3 amp. 250 volt switch on the market. 15/32" thick, insures an easier and faster installation. "T" Rated and Underwriters' Laboratories, Inc. approved.

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
71	Stem dia. 15/32", Length 9/32"	10	100	$94.00


1010

For High Watt Lamps—Fluorescent Banks

Lever operated pull switch, 10 amp., 125 volt switch—⅞" thick, 1¾" in diameter. Lever operated, single pole with double break mechanism. Safe, positive control of high watt lamps as well as fluorescent installations. "T" rated by Underwriter's Laboratories, Inc. Equipped with 6' cord, with bell at end, or plain lever control.

No.	Circuit	Stem Dia.	Lgth.	Ctn.	Std. Pkg.	List Price Per 100
1010	Single Circuit	½"	⅜"	10	100	$182.00

SWITCH HOUSING OUTLET BOX COVE
660 Watts—250 Volts

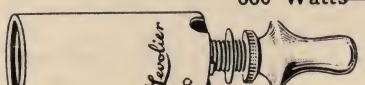

109

Plastic cover for No. 1010 assembly for ceiling or wall mounted outlet boxes. Power-saving individual control of banks of lights, or any installations using switch and outlet box cover combination.

Designed specifically for use with Nos. 202, 302 switches depending on load requirements. Partial holes can can be punched to fit 3" or 4" outlet boxes.

No.	Description	Std. Pkg.	List Price Each
109	With No. 1010 Switch	20	$2.48
109-X	Without Switch	20	.42

BRACKET FIXTURE SOCKET
660 Watts—250 Volts



121

Gives long, dependable service. Bottom lever serves as a finishing knob. Porcelain lever operated by a slight movement in any direction.

No.	Description	Ctn.	Std. Pkg.	Std. Pkg. Wgt.	List Price Per 100
121	⅝" Nipple	10	100	15 lbs.	$113.00

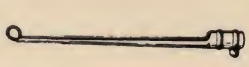

4100

LEVOLIER INDUSTRIAL SOCKETS
600 Watts—250 Volts
Brushed Brass, Lacquered Finish, 6 Bead Chain and Bell

Sturdily constructed throughout, screw shell .006" heavier than standard — for added strength at the lamp base. Top half of socket housing extends below the lever to form one section of the double wall thickness at the lever. Bottom half slides up inside top half past the lever to complete double wall section, giving two section lever support. Threaded collar locks the two halves together.

No.	Description	Ctn.	Std. Pkg.	Std. Pkg. Wgt.	List Price Per 100
4100	⅛" Cap, Pull Chain	25	100	25 lbs.	$128.70
4101	Pendant Cap, Pull Chain	25	100	20 lbs.	120.70
4102	Pendant Cap, Nipple, Chain	25	100	20 lbs.	134.10
4103	⅜" Cap, Pull Chain	25	100	20 lbs.	147.50

EXTENSION ARMS
For Levolier Switches

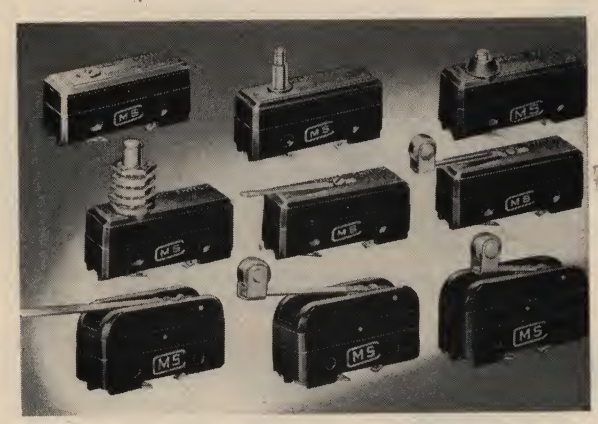

85

To eliminate needless wear, expense that rubs against reflector. Use an and risk by constant pulling of cord Extension Arm.

No.	Description	Ctn.	Std. Pkg.	List Price Per 100
85	5¼" overall length	10	100	$21.00
85-W	9" overall length	10	100	27.00

MICRO PRECISION SWITCHES

Patented snap-action switch mechanisms enclosed within precisely molded plastic cases. For use in alternating current circuits in industrial, commercial, and domestic applications. Used as limit, interlock, and control switches. They are single pole, double-throw, normally-open, and normally-closed. Listed by Underwriters' Laboratories for 125 volts—10 amperes, 250 volts—5 amperes, and 460 volts—3 amperes, a-c.

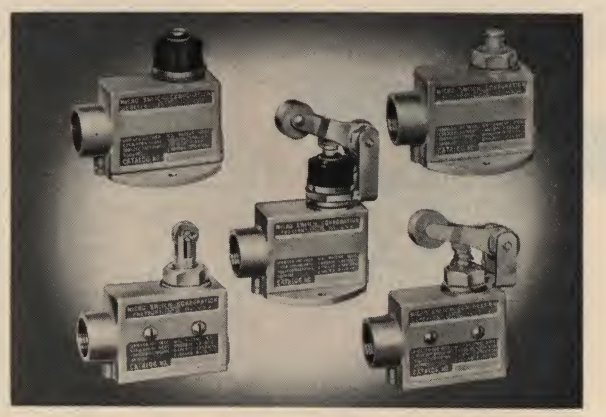


BASIC SWITCHES

They are the foundation of the entire line of MICRO SWITCH products and are the switching elements assembled within Die Cast Enclosed Switches, Explosion-Proof Switches, Splash-Proof Switches, and type LN Limit Switches.

GENERAL PURPOSE BASIC SWITCHES

Nine popular designs of Basic Switches differ in respect to actuators, operating means, and characteristics. For top accuracy actuators are integral parts of the switch. The "Pin" plunger design measures only $\frac{1}{16}$ x $\frac{37}{32}$ x $1\frac{15}{16}$ inches, and weighs less than one ounce. Small operating force and small operating movement.



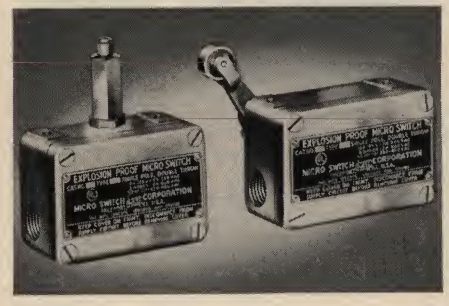
DIE CAST ENCLOSED SWITCHES

Die Cast Enclosed Switches combine ruggedness, light weight, compactness, high electrical capacity, reliability, ease of mounting, and long operation life. They are engineers' choice for electrical controls in industrial equipment for use as safeties, limits, and interlocks.

Synthetic rubber sealed plunger and gasketed bottom plate are designed for use in applications where oil, water, dust, or abrasives are present and may be in contact with the switch.

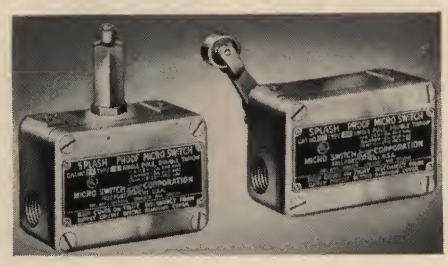
Die Cast Enclosed Switches, which have Basic Switches as switching element, are available in four actuator designs with a choice of bottom or side mounting. These metal housings, 1 x $2\frac{19}{32}$ x $3\frac{1}{64}$ inches, provide protection, conduit attachment, and actuating means; weight, ½ lb.

EXPLOSION-PROOF SWITCHES



Are for use in hazardous atmospheres, as limit switches, safety switches, control switches, and interlocks. These switches are listed by Underwriters' Laboratories for use in explosive atmospheres, Class I, Groups C and D and Class II, Group G. Thousands are in service in chemical plants, explosives and powder plants, petroleum refineries, and grain elevators. MICRO Explosion-Proof Switches are unique in ruggedness, high electrical capacity, long life, accuracy of repeat operation, and ease of installation. Housing measures $1\frac{31}{32}$ x $2\frac{25}{64}$ x $3\frac{21}{32}$ inches; weight, 2.4 pounds.

SPLASH-PROOF SWITCHES



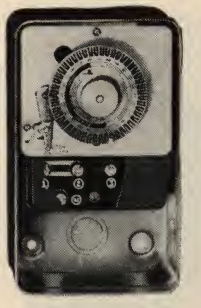
Are heavy metal housed switches for use in locations where the splash of oil, water, or coolants affect less adequately housed switches. Used where switching unit must have long electrical life, accuracy of operation, and ability to withstand severe use. Measures 2 x $2\frac{25}{64}$ x $3\frac{31}{32}$ inches, and weighs 2½ pounds.

TYPE LN LIMIT SWITCHES



Type LN and LN-2 Limit Switches are for general industrial use as limit, safety, and control switches where switches must have durability, compactness, accurate repeatability, and ease of replacement. Especially useful in locations exposed to dust, dirt, abrasives, and to splash of oil and water. Available in right- and left-hand designs. Leads are sealed in conduit hub, cover plate gasketed, and plunger operates through sealed diaphragm. LN-2 Roller Arm Actuator adjustable horizontally and vertically. Measures 1 x $1\frac{21}{32}$ x $4\frac{1}{16}$ inches. Weighs ¾ pound.

Prices On Request



300 Series

PARAGON TIME SWITCHES

STRAIGHT "ON AND OFF"

- •—**3000 WATT CAPACITY** — Single or Double Pole.
- •—**INDUSTRIAL TYPE**—Self-Starting Motor.
- •—**SHOCK-PROOF TERMINAL BLOCK.**

Accurate and dependable for controlling signs, commercial lights, show window lights, stokers, burners, valves, motors and other equipment where two or four operations per day are required.

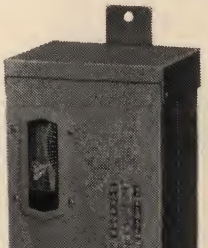
Steel case with hasp for padlock and unbreakable door glass. Size: 7" x 4¼" x 3".

Model No.	Voltage 60-Cycle	Switch	Amps.	List Price Each
301	115	SPST	30	**$10.50**
302	230	SPST	15	**13.00**
303	115	DPST	30	**14.50**
304	230	DPST	15	**15.50**
305	115	SPDT	30	**14.50**
306	230	SPDT	15	**15.50**
307	24	SPDT	30	**16.50**

No extra charge for 4 tripper dials, when specified on order. For 25 or 50 cycle motors add $1.00 to list price.

OUTDOOR TYPE

For outdoor signs, yard, street and traffic lighting



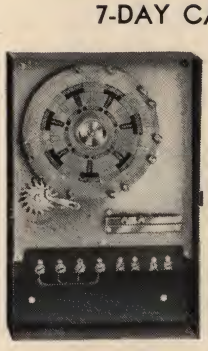
330 Series

Heavy duty outdoor type, same as 300 Series above but housed in special "breather" type case in baked gray enamel over zinc chromate undercoat. Size: 9¼" x $4\frac{5}{16}$" x $4\frac{3}{16}$" overall.

Model No.	Volt. 60 Cycle	Switch	Amps.	List Price Each
331	115	SPST	30	**$22.00**
332	230	SPST	15	**22.00**
333	115	DPST	30	**24.00**
334	230	DPST	15	**24.00**

No extra charge for 4 tripper dials, when specified on order. For 25 or 50 cycle motors, add $1.00 to list price.

7-DAY CALENDAR DIAL TIME SWITCHES



700 Series

- •—**PROVIDES INDIVIDUAL SETTINGS** for each day in the week.
- •—**WITH SUNDAY AND HOLIDAY OUT.**
- •—**SET AN ENTIRE WEEK'S** program in advance.

Automatic control of heating, ventilating and air-conditioning systems in public buildings, schools, churches, factories, etc. Widely used for control of machine tool warmup, glue pots, linotype machines, etc., on a weekly schedule in accordance with daily operating or working schedules. The 7-day dial is large and easy to set. Operations can be set to occur as close as 3 hours apart. Surface-mounting case, size $12\frac{5}{16}$" x $8\frac{1}{8}$" x $3\frac{15}{16}$".

115 Volts, 60 Cycle, A.C.

Model No.	Switch	Amperes Per Pole	Watts Per Pole	List Price Each
702-40	DPST	35	4000	**$36.50**
***703-10**	SPDT	10	1000	**32.50**
703-40	SPDT	35	4000	**40.00**
704-10	DPDT	10	1000	**34.50**

For 115 volt, 25 or 50 cycle; 230 volt 50 or 60 cycle; 24 volt, 50 or 60 cycle motors add $1.00 to list prices. For 230 volt, 25 cycle motors add $2.50 to list prices. 14 dial riders furnished as standard. Extra dial riders, $0.25 each net. * Can be furnished for 440 volt A.C. operation. Contacts rated 2.5 amperes, 1000 watts non-inductive load. Add $5.00 to list prices.

PARAGON POULTRY TIME SWITCHES



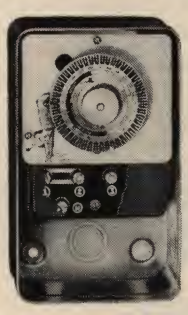
4-AM

4-AM EARLY BIRD

PORTABLE—Just plug it in! Morning lighting only. Turns lights on automatically at 4:00 A.M. With selector lever to turn lights out at 5, 6, 7 or 8 A.M.

LIGHTING CONTROL

Morning only or Evening only or both



PS30

Controlled artificial lighting increases egg production during the fall and winter months when egg prices are highest. Lighting Time Switches are ideal for every accepted method of artificial lighting, either morning only or evening only or both morning and evening lighting programs. — Provides the important 20 minute evening dimming period for safe roosting before "lights out."



MODEL PIP PORTABLE

PS30—For any lighting schedule. 2 dials furnished. 2-tripper dial for morning or evening lighting. 4-tripper dial for morning and evening lighting. With dimming circuit.

PIP—Same as above, but portable. Receptacles for "bright" and "dim" circuits at side of case, with Time Switch cord for plugging into convenient outlet.

115 Volts, 60 Cycle, A.C.

Model No.	Type	Watts per pole Bright	Watts per pole Dim.	List Price Each
4-AM	Morning lighting only (Portable—Plug-In)	1000	....	**$ 9.95**
301	Morning lighting only	3000	....	**10.50**
PS-30	Morn. or Eve.; or both. With dimming circuit.	3000	1000	**11.50**
PIP	Morn. or Eve.; or both. With dimming circuit. (Portable Plug-In)	700	700	**13.50**

For 115 Volt 50 cycle, or 230 volt 50 or 60 cycle add $1.00 to list price. Model 4-AM not available for 230 volts.

INTER-MATIC TIME SWITCHES



TS60SP

Inter-Matic Time Switches are sturdy, accurate and dependable. In spite of their low cost, they represent the very finest in design, material and workmanship. Simple to operate and easy to install.

EASY—**TO CHECK** operation of motor through window in motor cover.

TO SET TIME—Just pull dial forward and turn in either direction.

TO ADD TRIPPERS—Without removing dial.

TO OPERATE MECHANISM—Just press spring.

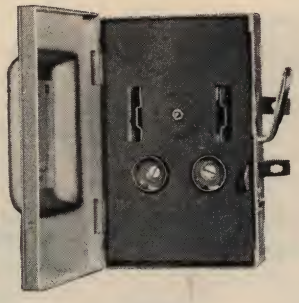
Recommended for controlling — Protective night lights, outdoor poster illumination, store lights, neon signs, signal systems, attic fans, pumps and blowers, poultry house, apartment or lobby lights.

No.	Switch	Amperes Per Pole	Voltage 60 Cycles	List Price Each
TS60SP	SPST	35	125	**$10.95**
TS60DP	DPST	35	125	**12.95**

For 50 cycle or 25 cycle operation, add $1.00. One extra set of trip-additional trippers are 40c per set list. Shipping wt.: Approx. 4 lbs. pers shipped free of charge direct from the factory upon request;

SQUARE D GENERAL PURPOSE SAFETY SWITCHES


D97211
Flat Base

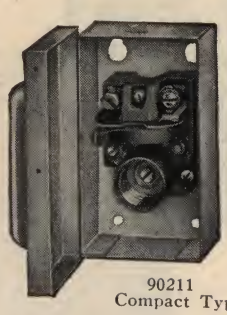

97211
Dead Front

SINGLE THROW

TYPE D

125 VOLTS, 125/250 VOLTS, 250 VOLTS
GENERAL PURPOSE ENCLOSURES
RAINTIGHT ENCLOSURES


D96352


90211
Compact Type

FUSIBLE | **NOT FUSIBLE**

INDOOR—NEMA TYPE 1 | **RAINTIGHT—NEMA TYPE 3** | **INDOOR—NEMA TYPE 1**

Rating		Flat Base		○ Compact Type		No Provisions for Hubs		Provision for Interchangeable Hubs			Flat Base		
Amp.	Fuse	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	Adaptable Hub Sizes◐ (Inches)	Amp.	Catalog Number	List Price
2-WIRE S/N (1 BLADE, 1 FUSE) 115 VOLTS A.C.—125 VOLTS D.C.													
30	Plug	◆D97211	$ 2.90	90211	$ 2.90	D97211R	$ 7.	D97211RO	$ 7.10	¾-1			
30	Plug			‡90211M	2.90								
30	Plug			✱90211WH	3.65								
30	Plug			▲✱97211WH	4.50								
30	Cart.	◆D97251	2.90			D97251R	8.20	D97251RO	8.30	¾-1			
30	Cart.												
2-POLE, 125/250 VOLTS A.C. OR D.C. — 230 VOLTS A.C.													
30	Plug	◆D99211	$ 3.45	93211	$ 3.45	D99211R	$ 7.55	D99211RO	$ 7.65	¾-1			
30	Plug			✱93211WH	4.70								
30	Plug			†93011	7.70								
30	Plug			†✱93011WH	9.85								
30	Cart.	◆D98251	4.30	93251	4.30	D98251R	8.10	D98251RO	8.20	¾-1			
30	Cart.												
60		◆D96252	9.20	34302	9.55	D96252R	16.80	D96252RO	16.90	¾ to 1¼	30	D91251	$ 3.25
100		◆D96253	20.65			D96253R	31.60	D96253RO	31.70	¾ to 1½	60	D91252	9.80
200		D96254	38.00			D96254R	55.00	D96254RO	55.10	2	100	D91253	19.70
200								D96254RW	60.30	2½★	200	D91254	28.40
400		96255	104.								400	91255	97.
600		✙ 96256	206.								600	✙ 91256	182.
3-WIRE S/N (2 BLADES, 2 FUSES) 125/250 VOLTS A.C. OR D.C.—230 VOLTS A.C.													
30	Plug	◆D97311	$ 3.80	90311	$ 3.80	D97311R	$ 8.10	D97311RO	$ 8.20	¾-1			
30	Plug												
30	Plug			✱90311WH	4.50								
30	Plug			▲✱97311WH	5.75								
30	Cart.	◆D97351	6.65	90351	5.40								
30	Cart.			▲97351	5.40	97351R	10.30	97351RO	10.40	¾-1			
60		◆D97312	9.20	34302	9.55	D97312R	17.20	D97312RO	17.30	¾ to 1¼			
100		◆D97313	21.60			D97313R	31.60	D97313RO	31.70	¾ to 1½			
200		◆D97314	47.			D97314R	58.	D97314RO	58.10	2			
200								D97314RW	63.30	2½★			
400		◆ 97315	114.										
600		✙ 97316	220.										
3-POLE, 115 OR 230 VOLTS A.C.													
30	Plug	△◆D99311	$ 7.15	△▲99311	$ 6.50	99311R	$ 13.40	99311RO	$ 13.50	¾-1			
30	Plug												
30	Cart.	◆D96351	9.10	▲99351	8.10.	99351R	14.30	99351RO	14.40	¾-1	30	▲ 91351	$ 6.00
30	Cart.										30	D91351	7.30
60		◆D96352	12.80			D96352R	18.20	D96352RO	18.30	¾ to 1¼	60	D91352	11.80
100		◆D96353	23.60			D96353R	35.30	D96353RO	35.40	¾ to 1½	100	D91353	24.20
200		◆D96354	52.			D96354R	63.40	D96354RO	63.50	2	200	D91354	38.15
200								D96354RW	68.70	2½★			
400		◆ 96355	120.								400	91355	105.
600		✙ 96356	230.								600	✙ 91356	209.
4-WIRE S/N (3 BLADES, 3 FUSES) 230 VOLTS A.C.													
30	Cart.	D97451	$ 12.20	▲97451	$ 10.80	97451R	$ 18.90	97451RO	$ 19.	¾-1			
60		D97412	21.60										
100		D97413	35.										
200		D97414	64.										
400		97415	147.										
600		✙ 97416	262.										
4-POLE, 230 VOLTS A.C.													
30	Plug	△ 96411	$ 13.20								30	D91451	$ 10.85
30	Cart.	D96451	11.75								60	D91452	20.65
60		D96452	22.60								100	D91453	49.40
100		D96453	57.								200	D91454	86.80
200		D96454	103.								400	91455	166.
400		96455	171.								600	✙ 91456	290.
600		✙ 96456	314.										

Plug fuse switches rated 115/230 volts A.C. — 120/250 volts D.C. only
△115 volts A.C. only.
†Dual water heater switch. (Two 93211's in one box).
‡Same as 90211 except in larger box.
✱Has dead-front shield over interior.
◆Conduit endwall standard. Metering endwall available.
✙Double lugs. Standard single lugs furnished on order.
FINISH: Blue-Gray Enamel.

○Cat. No. 90000 Series and 93000 Series Switches are Rotor Disc Type — All others are Blade Type.
3-Wire Switching Neutral — Prices same as for 3-Pole Switch. Add "SWN" to 3-Pole catalog number (125/250 volts D.C.).
▲Swing out base.
★Non-Interchangeable Hubs.
◐Interchangable Hubs — See Page 91.
All Neutrals — Insulated Groundable.



C47312

SQUARE D INDUSTRIAL SAFETY SWITCHES

TYPE C SINGLE THROW—230 VOLTS A.C., 250 VOLTS D.C.

GENERAL PURPOSE ENCLOSURE (NEMA TYPE 1)
RAINTIGHT ENCLOSURE (NEMA TYPE 3)

FUSIBLE										NOT FUSIBLE				
Amps.	H.P. Rating		Indoor NEMA Type 1 Sheet Steel Enclosure		Raintight NEMA Type 3 No Provisions for Hubs		Raintight NEMA Type 3 Provisions for Interchangeable Hubs			Amps.	H.P. Rating		Indoor NEMA Type 1 Sheet Steel Enclosure	
	A. C.	D. C.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Adaptable Hubs ‡ Sizes (In.)		A. C.	D. C.	Cat. No.	List Price
2-POLE, 230 VOLTS A.C. — 250 VOLTS D.C.														
30	2	5	◐45251	$ 12.										
30	2	5	C45251	12.	C45251R	$ 21.20	C45251RO	$ 21.50	¾-1					
30	2	5	*C46251	18.75										
30	2	5	● 7251	37.						30	3	5	C41251	$ 10.65
60	5	10	C46252	21.20	C46252R	40.	C46252RO	40.30	¾ to 1¼	60	7½	10	C41252	18.75
100	10	15	C46253	34.	C46253R	53.	C46253RO	53.30	¾ to 1½	100	15	15	C41253	32.
100							C46253RH	56.40	2★					
200	15	30	C46254	51.	C46254R	75.	C46254RO	75.30	2	200	25	30	C41254	43.
200	15	30					C46254RW	80.30	2½★					
400	30	50	46255	129.						400	50	50	41255	107.
600			▲46256	253.						600			▲41256	200.
3-WIRE S/N (2 BLADES — 2 FUSES) 230 VOLTS A.C. — 250 VOLTS D.C.														
30	3		C47311	$ 13.30	C47311R	$ 22.40	C47311RO	$ 22.70	¾-1					
60	7½		C47312	22.40	C47312R	41.	C47312RO	41.30	¾ to 1¼					
100	15		C47313	35.	C47313R	56.	C47313RO	56.30	¾ to 1½					
100							C47313RH	59.40	2★					
200	30		C47314	64.	C47314R	77.	C47314RO	77.30	2					
200	30						C47314RW	82.30	2½★					
400	50		47315	141.	47315R	184.			†					
600			▲47316	271.	47316R	343.			†					
3-POLE, 230 VOLTS A.C.														
30	3		◐45351	$ 14.50										
30	3		C45351	14.50	C45351R	$ 26.60	C45351RO	$ 26.90	¾-1					
30	3		*C46351	24.20						30	5		C41351	$ 13.30
60	7½		C46352	26.60	C46352R	43.	C46352RO	43.30	¾ to 1¼	60	10		C41352	24.20
100	15		C46353	41.	C46353R	62.	C46353RO	62.30	¾ to 1½	100	20		C41353	36.
100							C46353RH	65.40	2★					
200	30		C46354	70.	C46354R	83.	C46354RO	83.30	2	200	40		C41354	58.
200	30						C46354RW	88.30	2½★					
400	50		46355	147.	46355R	188.			†	400	50		41355	129.
600			▲46356	292.	46356R	391.			†	600			▲41356	262.
4-WIRE S/N (3 BLADES — 3 FUSES) 230 VOLTS A.C.														
30	3		C47411	$ 18.75	C47411R	$ 34.	C47411RO	$ 34.30	¾-1					
60	7½		C47412	31.	C47412R	51.	C47412RO	51.30	¾ to 1¼					
100	15		C47413	48.	C47413R	75.	C47413RO	75.30	¾ to 1½					
100							C47413RH	78.40	2★					
200	30		C47414	84.	C47414R	106.	C47414RO	106.30	2					
200	30						C47414RW	111.30	2½★					
400	50		47415	180.	47415R	266.			†					
600			▲47416	322.	47416R	448.			†					
4-POLE, 230 VOLTS A.C.														
30	3		C45451	$ 28.										
30	3		*C46451	32.										
60	10		C46452	39.						30-60	15		C41452	32.
100	20		C46453	63.						100	25		C41453	61.
200	30		C46454	113.						200	50		C41454	107.
400	50		46455	210.						400			41455	183.
600			▲46456	386.						600			▲41456	319.
3-POLE, 575 VOLTS A.C.														
30	7½		C45341	$ 25.40	C45341R	$ 44.	C45341RO	$ 44.30	¾-1	30	10		C41341	$ 18.75
60	20		C46342	31.	C46342R	51.	C46342RO	51.30	¾ to 1¼	30-60	25		C41342	25.40
100	30		C46343	56.	C46343R	79.	C46343RO	79.30	¾ to 1½	100	40		C41343	47.
100							C46343RH	82.40	2★					
200	50		C46344	84.	C46344R	108.	C46344RO	108.30	2	200	50		C41344	64.
200	50						C46344RW	113.30	2½★					
4-POLE, 575 VOLTS A.C.														
30	7½		*C46441	$ 41.										
60	20		C46442	47.						30-60	25		C41442	$ 41.
100	30		C46443	84.						100	40		C41443	76.
200	50		C46444	135.						200	50		C41444	109.

ALL NEUTRALS — INSULATED GROUNDABLE

*60 Ampere Switch with 30 Amp. fuse spacings and clips.

▲Double lugs. Standard single lugs furnished when ordered.

●Cast Iron Enclosure. Gaskets and Plates with one ¾" tapped conduit hole top and bottom furnished standard unless otherwise specified.

†For available hubs, consult factory.

‡**Interchangeable Hubs.** of sizes indicated can be adapted to RO type raintight switches. See page 91.

★**Non Interchangeable** — For smaller hub sizes, use RO type enclosure with required hub added.

◐Swing out base.

Notes: 30-60 Amp. switches have box-type lugs.
100-600 Amp. switches have solder-solderless lugs.
3-Wire Switching Neutral—Price same as for 3-Pole Switch. Add "SWN" to 3-Pole catalog number.

Finish: Blue-gray enamel.

SQUARE D INDUSTRIAL SAFETY SWITCHES

TYPE A—HEAVY DUTY—SINGLE THROW

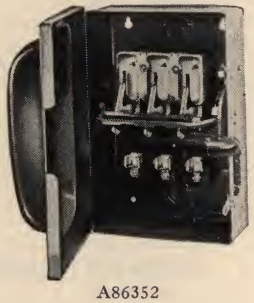
250 VOLTS - 650 VOLTS

GENERAL PURPOSE ENCLOSURE (NEMA TYPE 1)

	FUSIBLE						NOT FUSIBLE					
	H.P. Rating		Visible Blade		Concealed Blade		H.P. Rating		Visible Blade		Concealed Blade	
Amps.	A.C.	D.C.	No.	List Price	No.	List Price	A.C.	D.C.	No.	List Price	No.	List Price
2-POLE, 230 V. A.C.—250 V. D.C.												
30	2	5	A85251	$ 21.20	56251	$ 21.20	3	5	A81251	$ 19.95	51251	$ 19.95
30	2	5	*A86251	26.60								
60	5	10	A86252	28.	56252	28.	7½	10	A81252	26.60	51252	26.60
100	10	15	A86253	44.	56253	44.	15	15	A81253	43.	51253	43.
200	15	30	A86254	72.	56254	72.	25	30	A81254	61.	51254	61.
400	30	50	88255	162.			50	50	84255	113.		
600			†88256	261.					†84256	222.		
3-WIRE S/N (2 BLADES—2 FUSES) 230 V. A.C.—250 V. D.C.												
30	3		A87311	$ 24.20	59311	$ 24.20						
60	7½		A87312	32.	59312	32.						
100	15		A87313	51.	59313	51.						
200	30		A87314	79.	59314	79.						
400	50		89315	180.								
600			†89316	289.								
800			†89317	433.								
1200			†89318	613.								
3-POLE, 230 V. A.C.												
30	3		A85351	$ 26.60	56351	$ 26.60	5		A81351	$ 24.20	51351	$ 24.20
30	3		*A86351	32.								
60	7½		A86352	37.	56352	37.	10		A81342	35.	51342	35.
100	15		A86353	57.	56353	57.	20		A81343	53.	51343	53.
200	30		A86354	85.	56354	85.	30		A81344	69.	52344	69.
400	50		88355	185.			40		84345	180.		
600			†88356	317.					†84346	289.		
800			†88357	541.					†84347	469.		
1200			†88358	693.					†84348	629.		
4-WIRE, S/N (3 BLADES—3 FUSES) 230 V. A.C.												
30	3		A87411	$ 35.								
60	7½		A87412	44.								
100	15		A87413	68.								
200	30		A87414	100.								
400	50		89415	208.								
600			†89416	347.								
800			†89417	777.								
1200			†89418	954.								
4-POLE, 230 V. A.C.												
30	3		*A86451	$ 37.			5		A81451	$ 35.		
60	10		A86452	45.			15		A81442	45.		
100	20		A86453	75.			25		A81443	81.		
200	30		A86454	133.			50		A81444	128.		
400	50		88455	253.					84445	234.		
600			†88456	436.					†84446	408.		
2-POLE, 575 V. A.C.—600 V. D.C.—WITH ARC SUPPRESSORS												
30		7½	A85261	$ 35.	56261	$ 35.		7½	A81261	$ 24.20	51261	$ 24.20
60		15	A86262	37.	56262	37.		15	A81262	31.	51262	31.
100		25	A86263	57.	56263	57.		25	A81263	51.	51263	51.
200		50	A86264	85.	56264	85.		50	A81264	65.	51264	65.
400			88265	198.					84265	162.		
600			†88266	315.					†84266	234.		
3-POLE, 575 V. A.C.—WITH ARC SUPPRESSORS												
30	7½		A85341	$ 41.	56341	$ 41.	10		A81341	$ 28.	51341	$ 28.
30	7½		*A86341	43.								
60	20		A86342	44.	56342	44.	25		A81342	35.	51342	35.
100	30		A86343	65.	56343	65.	40		A81343	53.	51343	53.
200	50		A86344	106.	56344	106.	50		A81344	69.	51344	69.
400			88345	216.					84345	180.		
600			†88346	360.					†84346	289.		



A86352



A86352

* 60 Amp. switch with 30 Amp. fuse spacing and clips.

† Doublelug. Standard single furnished on order. 800 to 1200 Amp. switches arranged for two fuses per pole.



Test Prods Shielded in Receptacle



Test Prod Mounted in Receptacle

VOLTAGE TESTERS

No.	Description	List Price Each
5008	Tester (complete with polarity cap) 110-220-440-550 V. A.C., 60 cycle, 125-250-600 V. D.C.	$20.50
5006	Tester (complete with polarity cap) 12-24-36-48-60 V. A.C., 60 cycle, 10-20-30-40 V. D.C....	20.50
5007	Tester (complete with polarity cap) 110-220-440-550 V. A.C., 400 cycle, 30-60-90-120 V. D.C.	20.50
SK-3986	Polarity Indicating Cap (for any Square D Voltage Tester—10 in standard pkg.).....	3.05
5002	Case, Imitation Leather	2.40

SQUARE D INDUSTRIAL SAFETY SWITCHES

TYPE A HEAVY DUTY SINGLE THROW—230 VOLTS, 600 VOLTS

FUSIBLE

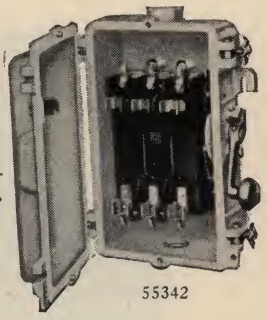
NEMA Types 3, 4 & 5 *Cast Aluminum Weatherproof-Dust-tight

Amps.	H.P. Rating A.C.	H.P. Rating D.C.	No.	List Price	Drillings Inches
2-Pole, 230 Volts A.C.—250 Volts D.C.					
30	2	5	55251	$ 79.	¾
60	5	10	55252	84.	1¼
100	10	15	55253	217.	1½
200	15	30	55254	319.	2½
3-Pole, 230 Volts A.C.					
30	3		55351	$ 88.	¾
60	7½		55352	97.	1¼
100	15		55353	239.	1½
200	30		55354	343.	2½

FUSIBLE

NEMA Types 3, 4 & 5 *Cast Aluminum Weatherproof-Dust-tight

Amps.	H.P. Rating A.C.	H.P. Rating D.C.	No.	List Price	Drillings Inches
3-Wire S/N (2 Blades—2 Fuses) 230V. A.C.—250V. D.C.					
30	3		50311	$ 87.	¾
60	7½		50312	95.	1¼
100	15		50313	233.	1½
200	30		50314	336.	2½
4-Wire, S/N (3 Blades—3 Fuses) 230 Volts A.C.					
30	3		50411	$ 97.	¾
60	7½		50412	107.	1¼
100	15		50413	251.	1½
200	30		50414	351.	2½



55342

FUSIBLE

NEMA Types 3, 4 & 5 *Cast Aluminum Weatherproof-Dust-tight

Amps.	H.P. Rating A.C.	H.P. Rating D.C.	No.	List Price	Drillings Inches
2-Pole, 575 Volts A.C.—600 Volts D.C.					
30		7½	55261	$ 98.	¾
60		15	55262	105.	1¼
100		25	55263	233.	1½
200		50	55264	336.	2½
3-Pole, 575 Volts A.C.					
30	7½		55341	$107.	¾
60	20		55342	116.	1¼
100	30		55343	251.	1½
200	50		55344	351.	2½

NOT FUSIBLE

Amps.	H.P. Rating D.C.	H.P. Rating A.C.	NEMA Type 9 CLASS II—GROUP G *Cast Aluminum Weatherproof-Dust-tight No.	List Price	Drillings Inches	NEMA Type 7 CLASS I—GROUP D Cast Iron Explosion Resisting No.	List Price	Drillings Inches
2-Pole, 575 Volts A.C.—600 Volts D.C.								
30	7½		53261D	$ 80.	¾	54261	$120.	¾
60	15		53262D	85.	1¼	54262	141.	1¼
100	25		53263D	220.	1½			
200	50		53264D	304.	2½			
3-Pole, 575 Volts A.C.								
30	10		53341D	$ 88.	¾	54341	$133.	¾
60	25		53342D	94.	1¼	54342	154.	1¼
100	40		53343D	234.	1½			
200	50		53344D	319.	2½			



53342

TYPE A HEAVY DUTY DOUBLE THROW—230 VOLTS, 600 VOLTS

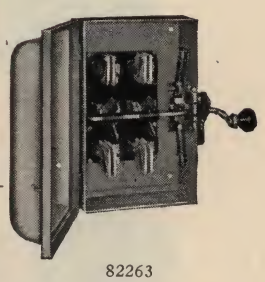
General and Special Purpose Enclosures

FUSIBLE TOP AND BOTTOM / NOT FUSIBLE

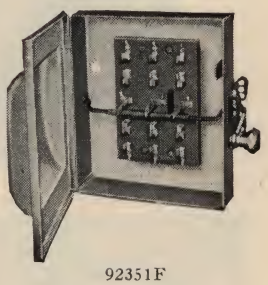
Amps.	Sheet Steel Enclosure NEMA Type 1 No.	List Price	Sheet Steel Enclosure NEMA Type 1 No.	List Price
2-Pole, 230 Volts A.C.—250 Volts D.C.				
30	92251F	$ 40.	92251	$ 24.20
60	82252F	72.	82252	39.
100	82253F	109.	82253	57.
200	82254F	152.	82254	76.
400	92255F	307.	92255	216.
600	*92256F	383.	*92256	306.
3-Pole, 230 Volts A.C.				
30	92351F	$ 44.	92351	$ 29.
60	82352F	79.	82352	44.
100	82353F	132.	82353	70.
200	82354F	200.	82354	110.
400	92355F	422.	92355	290.
600	*92356F	510.	*92356	403.
4-Pole, 230 Volts A.C.				
30	92451F	$ 61.	92451	$ 43.
60	92452F	97.	92452	61.
100	92453F	155.	92453	124.
200	82454F	253.	92454	173.
400	92455F	469.	92455	389.
600	*92456F	604.	*92456	506.

FUSIBLE TOP AND BOTTOM / NOT FUSIBLE

Amps.	Sheet Steel Enclosure NEMA Type 1 No.	List Price	Sheet Steel Enclosure NEMA Type 1 No.	List Price
2-Pole, 575 Volts A.C.—600 Volts D.C.				
30	82261F	$ 81.		
30-60			82262	$ 40.
60	82262F	84.		
100	†82263F	145.	†82263	63.
200	†82264F	176.	†82264	85.
400	†92245F	331.	†92245	243.
600			*†92246	342.
3-Pole, 575 Volts A.C.				
30	82341F	$ 85.		
30-60			82342	$ 47.
60	82342F	88.		
100	82343F	155.	82343	76.
200	82344F	233.	82344	118.
400	92345F	433.	92345	306.
600			*92346	443.
4-Pole, 575 Volts A.C.				
30	92441F	$129.		
30-60			92442	$ 67.
60	92442F	132.		
100	92443F	229.	92443	142.
200	82444F	295.	92444	189.
400	92445F	508.	92445	424.
600			*92446	549.



82263



92351F

INTERCHANGEABLE HUBS

IMPORTANT—All of the raintight switches whose catalog number ends in RO are provided with one threaded opening in the top endwall of the enclosure.

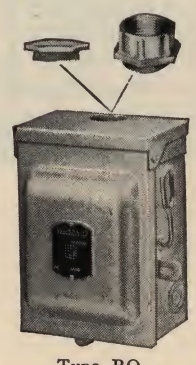
Since conduit cannot be installed in this threaded opening, interchangeable hubs are required. Order separately from table listed below.

When more than one conduit hub is required, an interchangeable hub may be installed by cutting a hole and using an adaptor nut as a lock nut, selected and ordered separately by catalog number from table listed below.

Switch Rating in Amps.	No. Closing Cap	Catalog Number of Interchangeable Hub for Conduit Size ¾"	1"	1¼"	1½"	2"	Adapter Nut	Dia. Hole Required When Using Adapter Nut
30	CA1	HC1	HD1				HN1	1 7/16"
60	CA2	HC2	HD2	HE2			HN2	1¾"
100	CA3	HC3	HD3	HE3	HG3		HN3	2"
200	CA4					HH4	HN4	2½"
List Price		$0.30	$1.75	$1.75	$3.10	$3.10	$0.95	

Standard Package Quantity—10

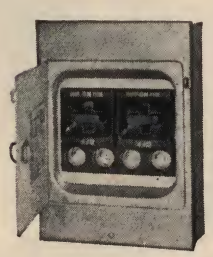
* Double lugs. Standard single lugs furnished when ordered.
† 575 volts A.C.—250 volts D.C. only.



Type RO
Raintight switch showing interchangeable hub and closing cap.

SQUARE D FUSIBLE SERVICE EQUIPMENT

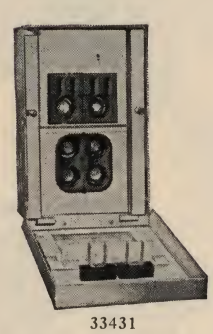
TYPE INDOOR METER SWITCH FUSE SEQUENCE—115 VOLTS A.C., 115/230 VOLTS A.C.



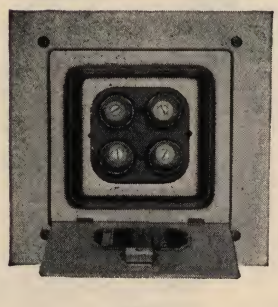
33582-S



30633PS



33431



37421

PULLOUT TYPE MAIN SWITCH AND FUSES — **GROUNDED NEUTRAL**

Rating	MAINS: Main Fuse Amps.	Poles	Blades	Fusible Poles	BRANCH CIRCUITS: 30 Amp. Plug 2-W S/N	30 Amp. Pull Out 3-W S/N	60 Amp. Pull Out 3-W S/N	CATALOG NUMBER: Flush	Surface	List Price
60 Ampere (Series) ‡	60	3	2	2	0	0	0	*37122	*39112	$ 9.20
	60	3	2	2	4	0	0	*37522	*39512	10.80
	60	3	2	2	4	0	1	33582F	33582S	11.65
	60	3	2	2	6	0	0	*37722	*39712	*13.95
	60	3	2	2	6	0	1	33782F	33782S	18.
	60	3	2	2	8	0	0	*37922	*39912	$20.
	60	3	2	2	8	0	1	33982F	33982S	24.
70 Ampere (Parallel) †	60	3	2	2	4	0	1	33582PF	33582PS	$11.65
	60	3	2	2	6	0	1	33782PF	33782PS	18.
	60	3	2	2	8	0	1	33982PF	33982PS	24.
100 Amperes (Parallel) †	60	3	2	2	4	0	1	33583PF	33583PS	$11.80
	60	3	2	2	4	1	1	30463PF	30463PS	19.50
	60	3	2	2	4	1	1	▲30493PF	▲30493PS	19.50
	60	3	2	2	4	0	2	30433PF	30433PS	19.50
	60	3	2	2	4	0	2	▲30483PF	▲30483PS	19.50
	60	3	2	2	6	0	1	33783PF	33783PS	$18.
	60	3	2	2	6	1	1	30663PF	30663PS	30.20
	60	3	2	2	6	1	1	△30693PF	△30693PS	30.20
	60	3	2	2	6	0	2	30633PF	30633PS	30.20
	60	3	2	2	6	0	2	△30683PF	△30683PS	30.20
	60	3	2	2	8	0	1	33983PF	33983PS	$24.
	60	3	2	2	8	1	1	30863PF	30863PS	32.20
	60	3	2	2	8	1	1	△30893PF	△30893PS	32.20
	60	3	2	2	8	0	2	30833PF	30833PS	32.20
	60	3	2	2	8	0	2	△30883PF	△30883PS	32.20
100 Ampere (Series) ‡	100	3	2	2	0	0	0	39113F	39113S	$21.60
	100	3	2	2	8	1	1	30853F	30853S	46.
	100	3	2	2	8	0	2	30823F	30823S	46.
	100	3	2	2	10	1	1	31053F	31053S	$47.40
	100	3	2	2	10	0	2	31023F	31023S	47.40
	100	3	2	2	12	1	1	31253F	31253S	$52.
	100	3	2	2	12	0	2	31223F	31223S	52.
	100	3	2	2	16	1	1	31653F	31653S	$58.
	100	3	2	2	16	0	2	31623F	31623S	58.

*Insulated Groundable Neutral. ‡Main Switch Controls All Circuits.
†Main and Range Pullout Circuit Wired in Parallel. Main Controls Other Circuits.
▲Third Pullout Not Wired (Independent), Can be sealed by adding barrier SK5376, **$1.00** list.
△Third Pullout Not Wired (Independent), Can be sealed by adding barrier SK5377, **$1.00** list.

LETTERBOX TYPE — COVER OPERATED — DEAD MAIN FUSES

Amps.	Mains: Poles	Blades	Fusible Poles	Branch Circuits: 30 Amp. 2-Wire S/N	60 Amp. 3-Wire S/N	Type of Neutral	Catalog Number	List Price
Indoor and Ganging Type — For Ganging or Single Installations. For Sidewalls, add "X" to Catalog Number (at same price).								
30	2	1	1P	0	0	Grounded	33021	$ 6.15
	2	2	2P	0	0		33001	7.60
	3	2	2P	0	0		33031	7.60
	Ganging Connector						29001	.60
Indoor Non-Ganging Type — With Swingout Interiors for Easier Wiring.								
30	2	1	1P	2	0	Grounded	33221	$ 7.45
	2	1	1P	4	0		33421	9.55
	3	2	2P	2	0		33231	9.90
	3	2	2P	4	0		33431	11.30

SQUARE D FUSE CABINET

1 POLE FUSIBLE BRANCHES—INDUSTRIAL NEUTRAL

125/250 V. A.C. OR D.C., 2 OR MORE WIRES

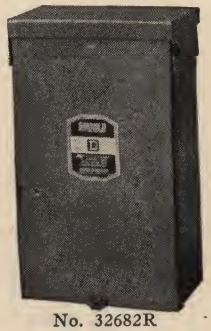
No. Branches	Mains	Box Dimensions (Inside): •Height	•Width	Depth	Flush Cover: Catalog No.	List Price	Surface Cover: Catalog No.	List Price
2	30	6⅝	6⅝	2¾	37221	$ 3.35	39211	$ 3.35
4	30	6⅝	6⅝	2¾	37421	4.50	39411	4.50
6	45	11⅛	7⅜	3⅛	37621	7.55	39611	7.55
8	45	12⅞	7⅜	3⅛	37821	10.30	39811	10.30
10	60	15¼	7⅜	3⅛	37021	15.15	39011	15.15
12	60	16⅞	7⅜	3⅛	37121	20.55	39111	20.55

See page 101 for larger fuse cabinets.
•For outside dimensions of FLUSH front, add approximately 1¼" to height and width of box.
FINISH: Blue Gray Enamel
Conduit Endwalls.

SQUARE D FUSIBLE SERVICE EQUIPMENT

TYPE OUTDOOR

MAIN SWITCH AND FUSES—SURFACE MOUNTING—GROUNDED NEUTRAL METER SWITCH FUSE SEQUENCE—115 VOLTS A.C., 115/230 VOLTS A.C.



No. 32682R

Mains					Branch Circuits		No Provision For Hubs		Provisions for Interchangeable Hubs ◐		
Rating	Main Fuse Amps.	Poles	Blades	Fuse Poles	30 Amp. Plug 2-Wire S/N	60 Amp. Pull 3-Wire S/N	Catalog Number	List Price	Catalog Number	List Price	Hub Sizes
30 Amps.	30	2	1	1P	0	0	39021 *	$ 12.	39021 D *	$ 14.05	★1″
	30	3	2	2P	0	0	39031 *	13.	39031 D *	15.05	★1″
	Fuseless	3	2	0	4	0	32481 R	12.	32481 RO	12.10	HC2-HE2
	Fuseless	3	2	0	6	0	32681 R	17.	32681 RO	17.10	HC2-HE2
60 Amps.	60	3	2	2	0	0	39112 R	$ 12.80	39112 RO	$ 12.90	HC2-HE2
	60	3	2	2	0	0			39902 YS	14.85	1¼″●
	Fuseless	3	2	0	4	0	32482 R	15.15	32482 RO	15.25	HC2-HE2
	60	3	2	2	4	1	33582 R	18.15	33582 RO	18.25	HC3-HG3
	Fuseless	3	2	0	4	1	32582 R	18.15	32582 RO	18.25	HC3-HG3
	Fuseless	3	2	0	6	0	32682 R	20.60	32682 RO	20.70	HC2-HG2
	60	3	2	2	6	0	39712 R	20.60	39712 RO	$ 20.70	HC3-HG3
	60	3	2	2	6	1	33782 R	27.60	33782 RO	27.70	HC3-HG3
	60	3	2	2	8	0	39912 R	26.	39912 RO	26.10	HC3-HG3
	60	3	2	2	8	1	33982 R	32.30	33982 RO	32.40	HC3-HG3
70 Amps.	▲60	3	2	2	4	1	33582 PR	$ 18.15	33582 PRO	$ 18.25	HC3-HG3
100 Amps.	100	3	2	2	0	0	39113 R	$ 24.40	39113 RO	$ 24.50	HC3-HG3
	▲60	3	2	2	4	1	33583 PR	18.15	33583 PRO	18.25	HC3-HG3
	Fuseless	3	2	0	4	1	32583 R	18.15	32583 RO	18.25	HC3-HG3
	▲60	3	2	2	6	1	33783 PR	27.60	33783 PRO	27.70	HC3-HG3
	▲60	3	2	2	8	1	33983 PR	32.30	33983 PRO	32.40	HC3-HG3

★No provisions for Interchangeable Hubs. ●Nipple.
▲60A Main and Range Circuits are wired in parallel. 60A Main Switch controls other circuits.
*Cover operated letter box type. **FINISH:** Blue-Gray enamel over galvanealed steel.

INTERCHANGEABLE HUBS ◐

IMPORTANT: Raintight switches whose Cat. No. ends in RO are provided with one threaded opening in top end-wall. Conduit cannot be installed in this opening; Interchangeable Hubs being required. Order separately from table listed. When more than one conduit hub is required, another Interchangeable Hub may be installed by cutting a hole and using an adapter nut. See page 91.

Switch Rating In Amps.	Cat. No. Closing Cap	Catalog Number of Interchangeable Hub For Conduit Size ¾″	1″	1¼″	1½″	Adapter Nut	Diam. Hole Req'd. When Using Adapter Nut	Std. Pkg. Qty.
60	CA2	HC2	HD2	HE2		HN2	1¾″	10
100	CA3	HC3	HD3	HE3	HG3	HN3	2″	10
List	$.30	$1.75	$1.75	$1.75	$3.10	$ .95		

MULTI-BREAKERS LOAD CENTERS
THERMAL-COILLERS MAGNETIC

TYPE MO4—4 CIRCUIT, GENERAL PURPOSE ENCLOSURES, 120/240 VOLT A.C.

Accessory Items

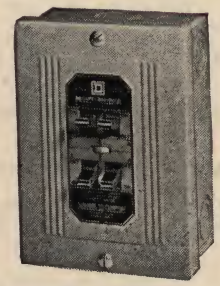
- **HANDLE TIES** (two) furnished with basic device allow adjacent poles of similar capacity to be easily converted to double pole, individual trip circuits. Additional Handle Ties, No. 10HT **$0.10** list each (Standard Package 10).

HANDLE LOCK OFF, NO. SK5400 $0.60 list each. (Standard package 10).

*Use S for Surface mounting; F for Flush.

FINISH: Blue Gray Enamel.

RAINTIGHT ENCLOSURES— Page 91.



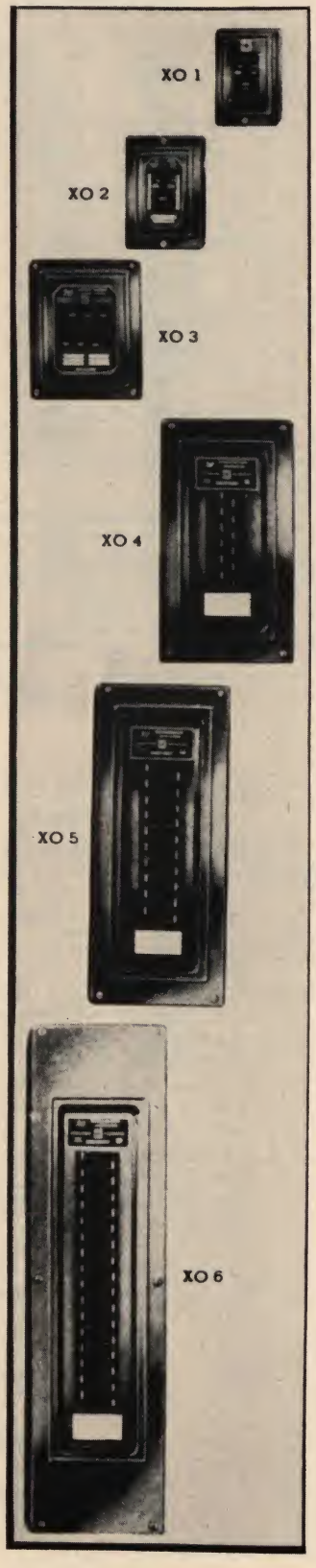
No. 184433S

SINGLE POLES● IN BASIC BLOCK RATING AND NUMBER				TYPE MO-4—4 CIRCUITS 4 Circuit Basic Block—No "Ad-Ons" Insulated Groundable Neutral 50 A. Main Capacity—Box No. 18		
15A.	20A.	30A.	40A.	Catalog Number Base Number	Add (Cover Suffix)*	List Price (With Cover)
4	..	..	..	181111	S or F	$11.00
3	1	..	..	181112	S or F	11.00
2	2	..	..	182211	S or F	11.00
1	3	..	..	182221	S or F	11.00
..	4	..	..	182222	S or F	11.00
2	..	2	..	183311	S or F	11.00
1	1	2	..	183312	S or F	11.00
..	2	2	..	183322	S or F	11.00
..	..	4	..	183333	S or F	11.00
2	..	..	2	184411	S or F	11.00
1	1	..	2	184412	S or F	11.00
..	2	..	2	184422	S or F	11.00
..	..	2	2	184433	S or F	11.00

Write for Square D's CATALOG DIGEST showing complete line of electrical distribution and control equipment —also CIRCUIT BREAKER NEWS.

SQUARE D XO CIRCUIT BREAKER LOAD CENTERS

1 TO 32 CIRCUITS 120/240 VOLTS A.C. ONLY



DEVICES CONSISTING OF BOX, INTERIOR AND COVER—ORDER BREAKERS SEPARATELY

Type Number	Max. No. Circuits S.P.	Max. No. Circuits D.P.	Mains	Box Type	Box Mounting	DEVICE Box, Interior and Cover —No Breakers Cat. No.	DEVICE Box, Interior and Cover —No Breakers List Price	COVERS For Separate Stocking Device Type	COVERS For Separate Stocking Type	COVERS For Separate Stocking Cat. No.
1 PHASE—2 or 3 WIRE, Insulated Groundable Neutral										
XO 1	3	1	30A. Lugs	Gen. Purpose Raintight Hood▲	Surface —	XO 1S R 14*	$2.00 4.00*	Cover is included in Device Price. Separate XOC 2 and XOC 3 covers $1.00 list each. Covers packed 5 to carton.		
XO 2	3	1	50A. Lugs	Gen. Purpose	Surface	XO 2S	3.65			
					Flush	XO 2F	3.65	XO 2	Surface Flush	XOC 2S XOC 2F
				Raintight▲	—	XO 2R	6.85			
XO 3	6	2	70A. Lugs	Gen. Purpose	Surface	XO 3S	4.95			
					Flush	XO 3F	4.95	XO 3	Surface Flush	XOC 3S XOC 3F
				Raintight▲	—	XO 3R	7.40			

*Order XO 1S and R 14 raintight hood

DEVICES CONSISTING OF BOX, INTERIOR—ORDER COVER AND BREAKERS SEPARATELY

Type Number	Max. No. Circuits S.P	Max. No. Circuits D.P.	Mains	Box Type	DEVICE Box and Interior —No Breakers or Cover Cat. No.	DEVICE Box and Interior —No Breakers or Cover List Price	COVER● Surface Cat. No.	COVER● Flush Cat. No.	COVER● List Price
1 PHASE—3 WIRE, Insulated Groundable Neutral									
XO 4	12	4	100A. Lug 70A. Breaker	Gen. Purpose	XO 4 XO 4M	$ 5.30 60.70	XOC 4S XOC 4MS	XOC 4F XOC 4MF	$2.20 3.30
			100A. Lug	Raintight▲	XO 4R	14.30	—	—	—
XO 5	20	6	100A. Lug 100A. Breaker	Gen. Purpose	XO 5 XO 5M	9.10 91.00	XOC 5S XOC 5MS	XOC 5F XOC 5MF	3.30 7.00
			100A. Lug	Raintight▲	XO 5R	22.10	—	—	—
XO 6	32	10	200A. Lug	Gen. Purpose	XO 6	44.00	XOC 6S	XOC 6F	7.00
3 PHASE—4 WIRE, Insulated Groundable Neutral									
XO 41	11	2	100A. Lug 50A. Breaker	Gen. Purpose	XO 41 XO 41M	14.50 69.70	XOC 4S XOC 41MS	XOC 4F XOC 41MF	2.20 3.30
			100A. Lug	Raintight	XO 41R	23.30	—	—	—
XO 51	19	4	100A. Lug 100A. Breaker	Gen. Purpose	XO 51 XO 51M	17.80 100.00	XOC 5S XOC 5MS	XOC 5F XOC 5MF	3.30 7.00
			100A. Lug	Raintight▲	XO 51R	31.10	—	—	—
XO 61	31	6	200A. Lug	Gen. Purpose	XO 61	53.00	XOC 6S	XOC 6F	7.00

●Order separately, not included in device price. Packed 5 to carton. ▲Raintight enclosures without hubs. For interchangeable hubs, see page 95.

XO PLUG-IN CIRCUIT BREAKERS

Separately boxed and packed 15 Single Pole or 5 Double Pole units to a carton for installation in XO Circuit Breaker Load Centers. 4 cartons to standard package

Poles	Amp. Rating	Catalog Number	List Price Each	Standard Carton Qty.	Standard Carton List Price	Standard Package Qty.	Standard Package List Price
Single	15	XO 115	$1.81	15	27.15	60	$108.60
	20	XO 120	1.81				
Double	15	XO 215	3.62	5	18.10	20	72.40
	20	XO 220	3.62				
	30	XO 230	3.62				
	40	XO 240	3.62				
	50	XO 250	3.62				

SQUARE D XO CIRCUIT BREAKER LOAD CENTERS

SPECIAL APPLICATION DEVICES

120/240 VOLTS A.C. ONLY

DEVICES CONSIST OF BOX, INTERIOR AND COVER—ORDER BREAKERS SEPARATELY

Type Number	Description	Box Type	Box Mounting	Box, Interior and Cover—No Breakers Cat. No.	List Price
WATER HEATER LOADS: TWO 1 PHASE—3 WIRE, Grounded Neutral					
XO 3WH	For waterheater loads having separate rates. Space for two double pole breakers—one for each 50 ampere separate bus.	Gen. Purpose	Surface Flush	XO 3WHS XO 3WHF	$ 4.82 4.82
SPLIT-BUS LOADS: 1 PHASE—3 WIRE, Insulated Groundable Neutral					
XO 42	Lighting main and range double pole breakers connect in parallel to 100 ampere bus. Lighting main breaker feeds up to 5 single pole branch circuits.	Gen. Purpose Raintight▲	Surface Flush	XO 42S XO 42F XO 42R	13.00 13.00 19.60
XO 42WH	Lighting main and range double pole breakers connect in parallel to 100 ampere bus. Lighting main breaker feeds up to 5 single pole branch circuits. Separate double pole waterheater circuit can be sealed.	Gen. Purpose Raintight▲	Surface Flush	XO 42WHS XO 42WHF XO 42WHR	18.00 18.00 28.00
XO 52	Lighting main, range and additional double pole circuit (dryer, etc.) connect in parallel to 100 ampere bus. Lighting main breaker feeds up to 10 single pole branch circuits.	Gen. Purpose Raintight▲	Surface Flush	XO 52S XO 52F XO 52R	21.00 21.00 28.00
SWITCHED NEUTRAL LOADS: 1 PHASE—3 WIRE, Insulated Groundable Neutral					
XO 53A	Two double pole breakers for switched neutral circuits (N.E.C. para. 5142D), as well as up to 13 single pole breakers connect to 100 ampere bus.	Gen. Purpose	Surface Flush	XO 53AS XO 53AF	16.10 16.10
XO 53B	Three double pole breakers for switched neutral circuits (N.E.C. para. 5142D), as well as up to 10 single pole breakers connect to 100 ampere bus.	Gen. Purpose	Surface Flush	XO 53BS XO 53BF	16.10 16.10
XO 53C	Four double pole breakers for switched neutral circuits (N.E.C. para. 5142D), as well as up to 7 single pole breakers connect to 100 ampere bus.	Gen. Purpose	Surface Flush	XO 53CS XO 53CF	16.10 16.10

XO PLUG-IN CIRCUIT BREAKERS

	Poles	Ampere Rating	Catalog Number	List Price Each	Standard Carton Qty.	Standard Carton List Price	Standard Package Qty.	Standard Package List Price
Separately boxed and packed 15 Single Pole or 5 Double Pole units to a carton for installation in XO Circuit Breaker Load Centers. 4 cartons to standard package.	Single	15	XO 115	$1.81	15	$27.15	60	$106.60
		20	XO 120	1.81				
	Double	15	XO 215	3.62	5	18.10	20	72.40
		20	XO 220	3.62				
		30	XO 230	3.62				
		40	XO 240	3.62				
		50	XO 250	3.62				

RAINTIGHT HUBS — **APPROVED BY UNDERWRITERS**

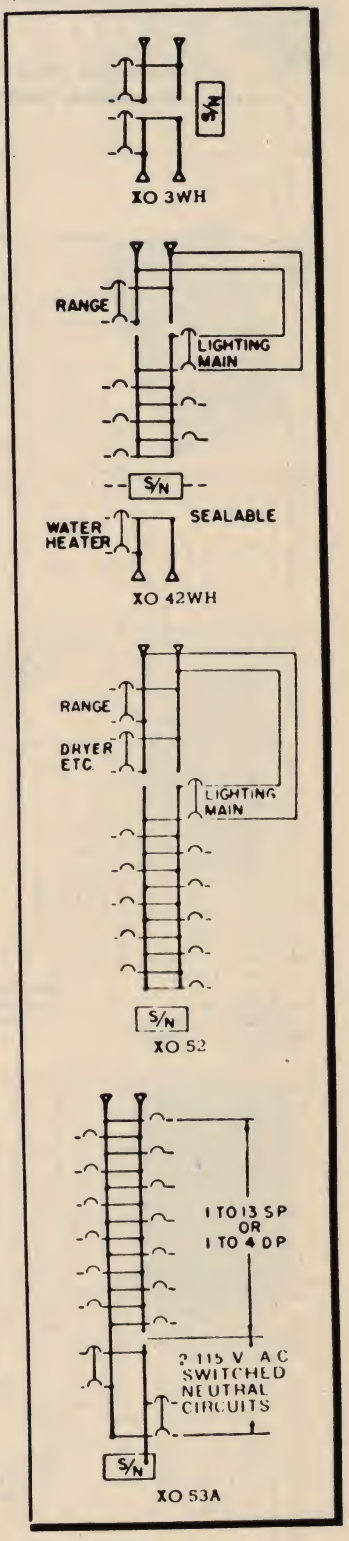
R suffix identifies raintight devices having no hub provisions.

▲RO suffix identifies raintight devices with threaded opening for interchangeable hub. No price addition. Order hub separately from table at right, and simply screw into place.

Cap screws into RO threaded hole to close opening, if not required.

Adapter Nut is used to lock interchangeable hub in place if installed in openings cut in either R or RO devices.

XO Device Cat. No.	Closing Cap Cat. No.	Cat. No. of Interchangeable Hub, Conduit Size ¾"	1"	1¼"	1½"	Adapter Nut Cat. No.	Std Pkg Quantity
RO 14 (For XO 1S)	CA 1	HC 1	HD 1			HN 1G	10
XO 2RO XO 3RO	CA 2	HC 2	HD 2	HE 2		HN 2G	10
XO 4RO XO 41RO XO 42RO XO 42WHRO XO 5RO XO 51RO XO 52RO	CA 3	HC 3	HD 3	HE 3	HG 3	HN 3G	10
List Each	$ .40	$2.00	$2.00	$2.00	$2.00	$1.00	



SQUARE D XO CIRCUIT BREAKER LOAD CENTERS

COMPLETE DEVICE PRICE TABLE

LIST PRICES INCLUDE BOX, INTERIOR, COVER AND BREAKERS

TO USE COMPLETE DEVICE PRICE TABLE:

1. Determine required number of double and single pole circuit as well as mains rating.
2. Select vertical column under Circuit Combinations corresponding to number of **DOUBLE POLE** circuits required. Follow down the selected vertical column until the additional number of **SINGLE POLE** circuits required is found.
3. Check mains ratings for adequacy.
4. Move to the right and locate a list price corresponding to additional feature identified in column headings.
5. Using TYPE NUMBER as a guide, order individual components making up a complete device from next page.

1 PHASE 3-WIRE

CIRCUIT COMBINATIONS (DOUBLE POLES / PLUS FOLLOWING SINGLE POLES)	Mains Rating in Amp.	Lugs Only		Main Breaker
		Gen. Purpose	Raintight	Gen. Purpose
TYPE →		XO 1S	XO 1R	
1	30	$ 3.81	$ 7.81	
2 0		5.62	9.62	
3		7.43	11.43	
TYPE →		XO 2	XO 2R	
1	50	5.46	8.66	
2 0		7.27	10.47	
3		9.08	12.28	
TYPE →		XO 3	XO 3R	
1	70	6.76	9.21	
2 0		8.57	11.02	
3 1		10.38	12.83	
4 2 0		12.19	14.64	
5 3		14.00	16.45	
6		15.81	18.26	

3 PHASE 4-WIRE

CIRCUIT COMBINATIONS (DOUBLE POLES / PLUS FOLLOWING SINGLE POLES)	Mains Rating in Amp.	Lugs Only		Main Breaker
		Gen. Purpose	Raintight	Gen. Purpose
TYPE →		XO 4	XO 4R	XO 4M
1	100	9.31	18.11	$65.81
2 0		11.12	17.92	67.62
3 1		12.93	19.73	69.43
4 2 0		14.74	21.54	71.24
5 3 1		16.55	23.35	73.05
6 4 2 **0**		18.36	25.16	74.86
7 5 3 **1**		20.17	26.97	76.67
8 6 4 **2** **0**		21.98	28.78	78.48
9 7 5 **3**		23.79	30.59	80.29
10 8 **6**	Bold not in 3ø—available 4W.	25.60	32.40	82.10
11 **9**		27.41	34.21	83.91
12		29.22	36.02	85.72
TYPE →		XO 5	XO 5R	XO 5M
6 4 2 0	100	23.26	32.96	108.86
7 5 3 1		25.07	34.77	110.67
8 6 4 2 0		26.88	36.58	112.48
9 7 5 3 1		28.69	38.39	114.29
10 8 6 4 2 **0**		30.50	40.20	116.10
11 9 7 5 3 **1**		32.31	42.01	117.91
12 10 8 6 4 **2** **0**		34.12	43.82	119.72
13 11 9 7 5 **3** **1**		35.93	45.63	121.53
14 12 10 8 6 **4** **2**		37.74	47.44	123.34
15 13 11 9 7 **5**		39.55	49.25	125.15
16 14 12 10 **8**		41.36	51.06	126.96
17 15 13 **11**		43.17	52.87	128.77
18 16 **14**	Bold not in 3ø—available 4W.	44.98	54.68	130.58
19 **17**		46.79	56.49	132.39
20		48.60	58.30	134.20
TYPE →		XO 6		
10 8 6 4 2 0	200	69.10		
11 9 7 5 3 1		70.91		
12 10 8 6 4 2 0		72.72		
13 11 9 7 5 3 1		74.53		
14 12 10 8 6 4 2 **0**		76.34		
15 13 11 9 7 5 3 **1**		78.15		
16 14 12 10 8 6 4 **2** **0**		79.96		
17 15 13 11 9 7 5 **3** **1**		81.77		
18 16 14 12 10 8 6 **4** **2** **0**		83.58		
19 17 15 13 11 9 7 **5** **3** **1**		85.39		
20 18 16 14 12 10 8 **6** **4** **2** **0**		87.20		
21 19 17 15 13 11 9 **7** **5** **3** **1**		89.01		
22 20 18 16 14 12 10 **8** **6** **4** **2**		90.82		
23 21 19 17 15 13 11 **9** **7** **5**		92.63		
24 22 20 18 16 14 12 **10** **8**		94.44		
25 23 21 19 17 15 13 **11**		96.25		
26 24 22 20 18 16 **14**		98.06		
27 25 23 21 19 **17**		99.87		
28 26 24 22 **20**	Bold not in 3ø—available 4W.	101.68		
29 27 25 **23**		103.49		
30 28 **26**		105.30		
31 **29**		107.11		
32		108.92		

3 PHASE 4-WIRE

CIRCUIT COMBINATIONS (DOUBLE POLES / PLUS FOLLOWING SINGLE POLES)	Mains Rating in Amp.	Lugs Only		Main Breaker
		Gen. Purpose	Raintight	Gen. Purpose
TYPE →		XO 41	XO 41R	XO 41M
1	100	$18.51	$25.11	$74.81
2 0		20.32	26.92	76.62
3 1		22.13	28.73	78.43
4 2 0		23.94	30.54	80.24
5 3 1		25.75	32.35	82.05
6 4 2 **0**		27.56	34.16	83.86
7 5 3 **1**		29.37	35.97	85.67
8 6 4 **2** **0**		31.18	37.78	87.48
9 7 5 **3**		32.99	39.59	89.29
10 8 **6**	Bold not in 3ø—available 4W.	34.80	41.40	91.10
11 **9**		36.61	43.21	92.91
12		——	——	
TYPE →		XO 51	XO 51R	XO 51M
6 4 2 0	100	31.96	41.96	117.86
7 5 3 1		33.77	43.77	119.67
8 6 4 2 0		35.58	45.58	121.48
9 7 5 3 1		37.39	47.39	123.29
10 8 6 4 2 **0**		39.20	49.20	125.10
11 9 7 5 3 **1**		41.01	51.01	126.91
12 10 8 6 4 **2** **0**		42.82	52.82	128.72
13 11 9 7 5 **3** **1**		44.63	54.63	130.53
14 12 10 8 6 **4** **2**		46.44	56.44	132.34
15 13 11 9 7 **5**		48.25	58.25	134.15
16 14 12 10 **8**		50.06	60.06	135.96
17 15 13 **11**		51.87	61.87	137.77
18 16 **14**	Bold not in 3ø—available 4W.	53.68	63.68	139.58
19 **17**		55.49	65.49	141.39
20				
TYPE →		XO 61		
10 8 6 4 2 0	200	78.10		
11 9 7 5 3 1		79.91		
12 10 8 6 4 2 0		81.72		
13 11 9 7 5 3 1		83.53		
14 12 10 8 6 4 2 **0**		85.34		
15 13 11 9 7 5 3 **1**		87.15		
16 14 12 10 8 6 4 **2** **0**		88.96		
17 15 13 11 9 7 5 **3** **1**		90.77		
18 16 14 12 10 8 6 **4** **2** **0**		92.58		
19 17 15 13 11 9 7 **5** **3** **1**		94.39		
20 18 16 14 12 10 8 **6** **4** **2** **0**		96.20		
21 19 17 15 13 11 9 **7** **5** **3** **1**		98.01		
22 20 18 16 14 12 10 **8** **6** **4** **2**		99.82		
23 21 19 17 15 13 11 **9** **7** **5**		101.63		
24 22 20 18 16 14 12 **10** **8**		103.44		
25 23 21 19 17 15 13 **11**		105.25		
26 24 22 20 18 16 **14**		107.06		
27 25 23 21 19 **17**		108.87		
28 26 24 22 **20**	Bold not in 3ø—available 4W.	110.68		
29 27 25 **23**		112.49		
30 28 **26**		114.30		
31 **29**		116.11		
32				

SQUARE D MULTI-BREAKER LOAD CENTERS

TYPE MO-8—4 TO 8 CIRCUITS—GENERAL PURPOSE ENCLOSURES—120/240 VOLTS A.C.

COMPLETE DEVICE PRICE TABLE

LIST PRICE INCLUDES COMPONENTS AS TABULATED

Device Type	Circuits 2 Pole	Circuits 1 Pole	List Price	Components ★Basic Device 4 Pole Unit	Components ●Ad-on Breakers 1 Pole	Components ●Ad-on Breakers 2 Pole	Components ‡ Cover
MO8	0	4	$13.10	1	0		1
	0	5	14.85	1	1		1
	0	6	16.60	1	2		1
	0	7◐	18.35	1	3		1
	0	8◐	20.10	1	4		1
MO8	1	2	13.10	1	0		1
	1	3	14.85	1	1		1
	1	4	16.60	1	2		1
	1	5	18.35	1	3		1
	1	6◐	20.10	1	4		1
MO8	2	1	14.85	1	1		1
	2	2	16.60	1	2		1
	2	3	18.35	1	3		1
	2	4	20.10	1	4		1
MO8	3	0	17.10	1	0	1	1
	3	1	18.85	1	1	1	1
	3	2	20.60	1	2	1	1
	3	3	22.35	1	3	1	1

◐Suitable for use as SERVICE EQUIPMENT when adjacent poles of basic block are joined with handle ties to give 6 or fewer sub-divisions of service.

★ BASIC DEVICE

SINGLE POLES▲ IN BASIC BLOCK RATING AND NUMBER 15 A.	20 A.	30 A.	40 A.	50 A.	BASIC DEVICE CONSISTING OF: 4 Circuit Block—Space for 4 "Ad-Ons" Insulated Groundable Neutral 70 A. Main Capacity — Box No. 2 Catalog Number Base No.	Catalog Number Add Cover Suffix)*	List Price (With Cover)‡
4	...	...	...	...	21111	S or F	$13.10
3	1	...	...	...	21112	S or F	13.10
2	2	...	...	...	22211	S or F	13.10
1	3	...	...	...	22221	S or F	13.10
...	4	...	...	...	22222	S or F	13.10
2	...	2	...	...	23311	S or F	13.10
1	1	2	...	...	23312	S or F	13.10
...	2	2	...	...	23322	S or F	13.10
...	...	4	...	...	23333	S or F	13.10
2	...	...	2	...	29411	S or F	13.10
1	1	...	2	...	29412	S or F	13.10
...	2	...	2	...	29422	S or F	13.10
...	...	2	2	...	29433	S or F	13.10
...	...	...	4	...	29494	S or F	13.10
2	...	...	...	2	29511	S or F	13.10
1	1	...	...	2	29512	S or F	13.10
...	2	...	...	2	29522	S or F	13.10
...	...	2	...	2	29533	S or F	13.10
...	...	...	2	2	29594	S or F	13.10
...	...	...	...	4	29595	S or F	13.10

▲Two handle ties furnished with basic device allow adjacent poles of similar capacity to be easily converted to double pole, individual trip circuits. Ties mounted on 40 and 50 A. circuits.
*Use S for Surface Mounting and F for Flush Mounting.
‡Cover is separately packaged but can be added to the basic carton after selection. Prices include cover. **For stocking device less cover use Catalog Number without S or F suffix and deduct** $1.00 **list. See table below for listing of separate covers.**

● AD-ON BREAKERS

Poles	Amp. Rating	Catalog Number	List Price Each	Std. Pkg. Qty.
1	15	115A	$ 1.75	10
	20	120A	1.75	
	30	130A	1.75	
✤2	15	215A	$ 4.00	10
	20	220A	4.00	
	30	230A	4.00	
	40	240A	4.00	
	50	250A	4.00	

✤Two pole Ad-On can only be mounted in lower left position.

Ad-On

FLEXIBLE DESIGN

Flexible design and convenient packaging provides off-the-shelf service for all job requirements from modest stocks, without excessive handling and record keeping.

Completed Device Price Table lists the total price based on the possible circuits and space combinations. Required components as tabulated may be selected from tables below.

★**Basic Device** consists of a 4-circuit block (minimum requirements for most applications) with box, neutral and handle ties for double pole circuits.
Carton used for packaging basic device is designed to receive the Ad-On breakers and covet when selected.

●**Ad-On Breakers** extend range of basic block from 4 to 5, 6, 7 or 8 circuits in the exact combinations required for each job.
They are individually packaged, but can be added to the basic device carton after selection.

‡**Cover** — either flush or surface - - completes the load center. Twist-outs are provided in cover for the "Ad-On" breakers when installed. **Cover** is separately packaged but can be added to the basic carton after selection. **Price Includes Cover. For Stocking Devices Less Cover Use Catalog Number without S or F Suffix and Deduct** $1.00 **List.** See table for listing of separate covers.

▲**Handle Ties—Cat. No. 40-HT** furnished with basic device allow adjacent poles of similar capacity to be easily converted to double pole, individual trip circuits. Additional handle ties can be ordered separately as required.

Raintight Enclosures — Page 91.

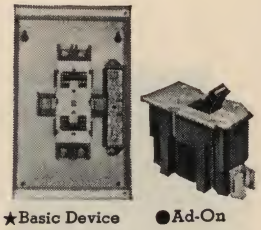
Finish: Blue Gray.

‡ COVERS

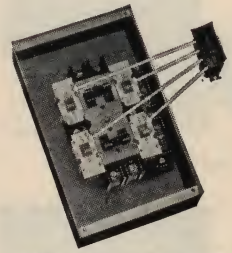
Item	Cat. No.	List Price Each	Std. Pkg. Qty.
‡COVER Flush	2F	$ 1.00	10
‡COVER Surface	2S	1.00	10

★ACCESSORIES

▲Handle Tie	40HT	.10	10
Handle Lockoff	SK-5400	.60	10

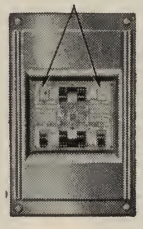


★Basic Device ●Ad-On



Easy to "Ad-On" Circuits

‡ Cover with Two Ad-Ons and Space



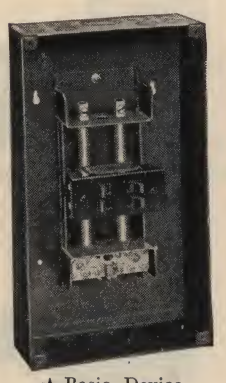


Raintight Enclosure See Page 12

SQUARE D MULTI-BREAKER LOAD CENTERS

TYPES MO12-MO20—PLUG-IN FLEXIBLE DESIGN

2 to 20 Circuits



★ Basic Device
No. 4123
With Breaker Installed



● "Plug-In" Breaker



Complete MO 12



Raintight with
Removable Hubs

Completed Device Price Table lists the total price based on possible circuit and space combinations. Components as tabulated may be selected from tables.

★Basic Device consists of a box with bus bars and neutral. Space is available for three 4 pole breaker units in type MO-12 and five breakers in type MO 20.

●Plug-in breakers extend range of basic device from 2 to 4, 6, 8, 10, or 12 circuits in the MO 12 and from 2 to 20 circuits in the MO 20.

‡Cover — either flush or surface — completes the load center. Twistout openings are provided for additional breakers. **For stocking devices less cover, use Cat. No. without S or F suffix and deduct cover list price.** (See exception ◐)

▲One Handle Tie furnished with each pair of circuits allows adjacent poles of similar capacity on each breaker to be easily converted to double pole, individual trip circuits. Max. number of double pole circuits for 4-wire devices: 8 branches — 2, 10 — 3, 12 — 4, 14—5, 16—6, 18—6, 20—6

Use S for Surface. F for Flush.

COMPLETE DEVICE PRICE TABLE

LIST PRICE INCLUDES COMPONENTS AS TABULATED

Device Type	Circuits 1 Pole	Space for Additional Circuits 1 Pole	TOTAL LIST PRICE † 3-Wire S/N	TOTAL LIST PRICE † 4-Wire S/N	COMPONENTS ★ Basic Device	COMPONENTS Plug-in ● Breakers 4 Pole	COMPONENTS Plug-in ● Breakers 2 Pole	COMPONENTS ‡ Cover
MO 12	4	8	$17.50	$26.00	1 (MO 12)	1	0	1
	6	6	21.50	30.00		1	1	1
	8	4	24.50	33.00		2	0	1
	10	2	28.50	37.00		2	1	1
	12	0	31.50	40.00		3	0	1
MO 20	4	16	21.00	30.00	1 (MO 20)	1	0	1
	6	14	25.00	34.00		1	1	1
	8	12	28.00	37.00		2	0	1
	10	10	32.00	41.00		2	1	1
	12	8	35.00	44.00		3	0	1
	14	6	39.00	48.00		3	1	1
	16	4	42.00	51.00		4	0	1
	18	2	46.00	55.00		4	1	1
	20	0	49.00	58.00		5	0	1

†Double pole branches occupy same space as two single pole branches at no price change. **Price does not include split main device.** ◐

‡COVER

For Type	Mounting	Catalog No.	List Price	Package
MO 12	Flush	4F	$2.00	Standard Package of 5
	Surface	4S	2.00	
MO 20	Flush	6F	3.00	
	Surface	6S	3.00	

ACCESSORIES

▲Handle Ties—For D.P. Circuits..	10HT	$ .10 Ea.	Standard Package of 10
Handle Lock-Off.....	SK-5400	.60 Ea.	

★BASIC DEVICE (BOX, BUS BARS, NEUTRAL AND COVER) — 100 AMPERE MAIN CAPACITY

Type Device	Max. No. Circuits	No. Poles Included	Type Enclosures	3 Wire S/N Device and Cover Base No.	3 Wire S/N Device and Cover Add ✱ Cover Suffix	3 Wire S/N Device and Cover ‡ List Price W/Cover	4 Wire S/N Device and Cover ★ Base No.	4 Wire S/N Device and Cover Add ✱ Cover Suffix	4 Wire S/N Device and Cover ‡ List Price W/Cover	Box No.
MO 12	12	None	Gen. Purpose	4123	S or F	$10.50	4124	S or F	$19.00	4
			Raintight	RO4123	.....	20.50	RO4124	.....	29.00	RO4
MO 20	20	None	Gen. Purpose	6203	S or F	14.00	6204	S or F	23.00	6
			Raintight	RO6203	.....	26.00	RO6204	.....	35.00	RO6
MO 20	14 S.P. ◐ 3 D.P.	2-15A. S.P. 1-50A. D.P.	Gen. Purpose	6418	S or F	32.00				6
			Raintight	RO6418	.....	44.00				RO6
MO 20	◐10 S.P. 5 D.P.		Gen. Purpose	6818	S or F	32.00				6
			Raintight	RO6818	.....	44.00				RO6

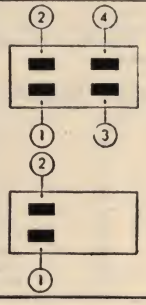
◐For use as SERVICE EQUIPMENT with 6 service sub-divisions or less. Double poles are in parallel and one feeds the single poles (split main bus). Cover with main disconnects identified must be supplied with device.

●PLUG-IN BREAKERS — 120/240 VOLTS A.C.

Amp. Rating by ▲ Circuit Position 1	2	3	4	Catalog Number	List Price
15	15	..	..	MO 481100	$4.
15	15	15	15	MO 481111	7.
15	15	15	20	MO 481112	7.
15	15	15	30	MO 481113	7.
15	15	20	20	MO 481122	7.
15	15	20	30	MO 481123	7.
15	15	30	30	MO 481133	7.
15	15	40	40	MO 489411	7.
15	15	50	50	MO 489511	7.
20	20	..	..	MO 482200	$4.
20	20	15	30	MO 482213	7.
20	20	20	15	MO 482221	7.
20	20	20	20	MO 482222	7.
20	20	20	30	MO 482223	7.
20	20	30	30	MO 482233	7.
20	20	40	40	MO 489422	7.
20	20	50	50	MO 489522	7.

Amp. Rating by ▲ Circuit Position 1	2	3	4	Catalog Number	List Price
30	30	..	..	MO 483300	$4.
30	30	15	20	MO 483312	7.
30	30	30	15	MO 483331	7.
30	30	30	20	MO 483332	7.
30	30	30	30	MO 483333	7.
30	30	40	40	MO 489433	7.
30	30	50	50	MO 489533	7.
40	40	..	..	MO 489400	$4.
40	40	40	40	MO 489494	7.
40	40	50	50	MO 489594	7.
50	50	..	..	MO 489500	$4.
50	50	50	50	MO 489595	7.
Dummy Plug-in Unit				MO 480000	2.

Position Location



Finish: Blue Gray Enamel. For Hubs: Page 91.

SQUARE D CIRCUIT BREAKER PANELETTES

WITH PLUG-IN TYPE MM, M1 AND M2 THERMAL-MAGNETIC CIRCUIT BREAKERS

3φ. 4W. S/N 120/208 V. A.C.
3φ. 3W. 240 V. A.C.
★1φ. 3W. S/N 120/240 V. A.C.
★1φ. 2W. 240 V. A.C.



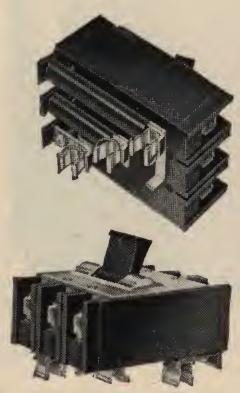
COMPLETE MHP PANELETTE



Bus Bar Assembly with one breaker plugged in.



Barrier



PLUG-IN BREAKERS

MAINS: LUGS ONLY.
BRANCHES: Single Pole—15 to 50A. 120 V. A.C.
Two Pole—15 to 100A. 240 V. A.C.
Three Pole—15 to 100A. 240 V. A.C.
BOXES: Single row—14″ wide, 5¾″ deep.
Double row—20″ wide, 5¾″ deep.
FRONTS: Trim with door and lock.

INTERIORS, BOXES AND FRONTS

Total Breaker Mounting Space (Inches)	Amp. Rating of Mains	Type	Breaker Rows	Box Width (Inches)	Box Height (Inches)	Interior Assembly (Less Breakers)		Front		Box		Complete List Price (Less Breakers)
						Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	List Price
18	200	MHP-18	Single	14	33	MHP-4218	$ 44.	P-1433F or S	$ 17.	P-33	$ 9.	$ 70.
27	200	MHP-27	Single	14	42	MHP-4227	49.	P-1442F or S	21.	P-42	12.	82.
36	400	MHP-36	Double	20	41	MHP-4436	85.	DF-142F or S	33.	MH-41	22.	140.
54	400	MHP-54	Double	20	50	MHP-4454	95.	DF-151F or S	37.	MH-50	25.	157.

PLUG-IN BREAKERS

BREAKER MOUNTING SPACE →	15 to 50 AMPERE										70 and 100 AMPERE					
	2 SINGLE POLES Type MM				2 POLE Type M1				3 POLE Type M1		2 POLE Type M2				3 POLE Type M2	
	2″				2″				3″		3″				4½″	
Amp. Trip Rating	BUS CONNECTION			List Price	BUS CONNECTION			List Price	Cat. No.	List Price	BUS CONNECTION			List Price	Cat. No.	List Price
	A Cat. No.	B Cat. No.	C Cat. No.		A Cat. No.	B Cat. No.	C Cat. No.				A Cat. No.	B Cat. No.	C Cat. No.			
15	MHA-115	MHB-115	MHC-115	$ 11.	MHA-215	MHB-215	MHC-215	$ 17.	MH-315	$ 27.						
20	MHA-120	MHB-120	MHC-120	11.	MHA-220	MHB-220	MHC-220	17.	MH-320	27.						
30	MHA-130	MHB-130	MHC-130	11.	MHA-230	MHB-230	MHC-230	17.	MH-330	27.						
40	MHA-140	MHB-140	MHC-140	11.	MHA-240	MHB-240	MHC-240	17.	MH-340	27.						
50	MHA-150	MHB-150	MHC-150	11.	MHA-250	MHB-250	MHC-250	17.	MH-350	27.						
70											MHA-270	MHB-270	MHC-270	$ 27.	MH-370	$ 39.
100											MHA-216	MHB-216	MHC-216	27.	MH-316	39.

COMPONENT SELECTION DATA
STANDARD FINISH — Fronts — blue gray; boxes — galvanized steel.

WIRING GUTTERS: Single row — 4″ end and side gutters.
Double row — 6″ end gutters; 4″ side gutters.

★**SINGLE PHASE THREE WIRE** mains are accommodated by selecting breaker units having Type A bus connections, wherein connections are made to the two outside bus bars only.

THREE PHASE FOUR WIRE "WYE" mains arrangement is a standard feature. See **distributed phase** paragraph for sequence phase connections of single-pole and two-pole branches.

THREE PHASE FOUR WIRE "DELTA" mains can be accommodated. The neutral on three phase four wire "Delta" systems is generally derived by center tapping one of the transformer phases. For this application, all single-pole and two-pole branches requiring a neutral are connected to the two outside bus bars through the use of breaker units having Type A bus connections. The third bus bar (center bus) would be used only for 3-pole breakers in this system.

DISTRIBUTED PHASE bus connections for single pole or two pole branches are available by selecting proper assortment of Type A, B, and C breaker units to provide sequence phase connections (see bus connection diagrams at top of page).

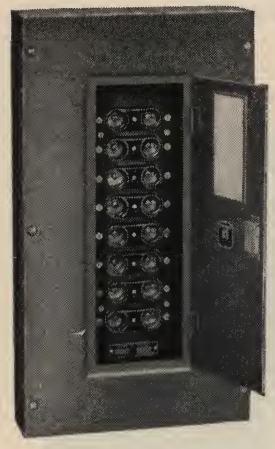
SUBFEED LUGS package assembly kits are available for adding a second set of lugs to the panelettes:
SK-4052—200A. lugs for MHP-18 and MHP-27..... **$12.** List
SK-4053—400A. lugs for MHP-36 and MHP-54..... **15.** List

EXAMPLE ESTIMATE
120/208V. 3φ, 4W. SERVICE
200A. MAIN LUGS — FLUSH MTG.

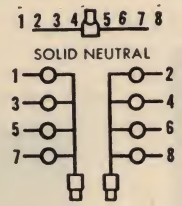
Breaker Space	Components		Unit List Price	Total List Price
4″	4—20A. 1P.	1—MHB-120	$ 11.	$ 11.
		1—MHA-120	11.	11.
18″	6—40A. 3P.	6—MH-340	27.	162.
4½″	1—70A. 3P.	1—MH-370	39.	39.
26½″	1—27″ Interior	1—MHP-4227	49.	49.
	1—Flush Front	1—P-1442-F	21.	21.
	1—Box	1—P-42	12.	12.
		Total List Price.....		$305.

SQUARE D FUSIBLE LIGHTING PANEL BOARD

TYPE NRP-3



Type NRP 16-3L



1φ. 3W. S/N
A.C. or D.C.
Plug Fusible
No Switches

MAINS: 125/250 V. A.C. or D.C.
BRANCHES: Single Pole, 30 Amp., 125 V., 2-Wire S/N Plug Fusible.
BOXES: 12" Wide, 4" Deep.
FRONTS: Single Door Type with Flush Lock.
GUTTERS: 3¼" Sides and Ends.

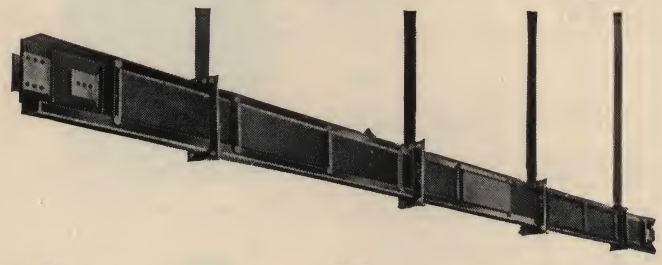
No. Branches	Amp. Mains	*Catalog No.	Box Height	List Price
MAINS: LUGS ONLY				
4	100	NRP 04-3L	13¼	**$ 23.**
8	100	NRP 08-3L	16¾	**31.**
12	100	NRP 12-3L	20¼	**39.**
16	100	NRP 16-3L	24¾	**45.**
20	100	NRP 20-3L	28¼	**53.**
24	100	NRP 24-3L	33¼	**61.**

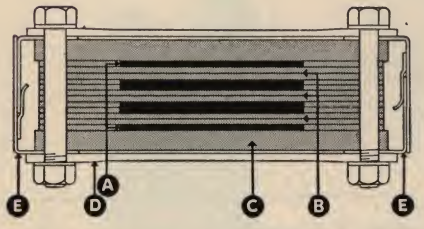
Finish: Blue-gray enamel.

***SURFACE OR FLUSH:** When ordering add suffix letter "S" or "F" to catalog number to indicate surface or flush mounting.

SQUARE D FEED-IN DUCT

STRAIGHT LENGTHS AND FITTINGS





Square D Feed-In Duct is a very high efficiency, heavy power feeder with **lowest known voltage drop characteristics.** Exclusive design requires no ventilation for limiting temperature rise—permits completely enclosed, dust-excluding structure. Rigid construction resists heavy electrical stresses. Absence of all-metal enclosure eliminates "hum" and iron losses.

"One-split" bus (A), with halves positioned on either side of other two buses, permits close spacing and electrical symmetry important to reduction of both energy loss and voltage drop.

Solid ebonized asbestos insulating plates (B) and (C) which totally enclose bus, have great mechanical and high dielectric strength, conduct heat readily, are impervious to moisture and resistant to arc. Surge clamps (D) every 24" give structural and mechanical strength necessary to withstand 50,000 ampere "shorts." Steel channels (E) complete the housing.

SQUARE D PLUG-IN DUCK

STRAIGHT LENGTHS AND FITTINGS

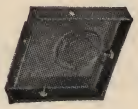




Square D Plug-In Duct is an extremely flexible system of power distribution to branch circuits. Round bus bars provide greater mechanical strength and resistance to short circuit stresses. Steel enclosure and rotating doors over plug-in openings exclude dust and dirt.

Plug-in units are easily attached. Powerful contact jaws, affording positive pressure, can be "rocked" into position on bus bars. Five units may be attached to either side of each ten-foot section. Flexible couplings join Plug-in bus bars—absorb expansion or contraction and eliminate section alignment problems.

SQUARE D SCREW COVER DUCK


End


Tee


Connector


Elbow

Straight Section



Screw cover duct is for use in connecting loadside switches, meters, etc. Keyhole slots eliminate necessity of entirely removing screws when cover is removed.

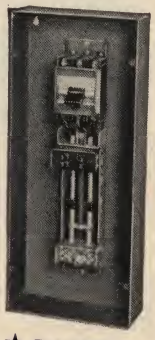
Screw cover duct and fittings are made of heavy code gauge steel in three sizes: 4"x4"; 4"x6"; and 6"x6". All holes are punched to template so that the parts are interchangeable. Sufficient knockouts provided for convenient banking. No fittings other than those on this page are available. Duct is finished in baked blue-gray enamel.

Size	Lgth. Feet	Wt. Lbs.	Cat. No.	List Price
STRAIGHT SECTIONS				
4x4	1	3	4412	**$ 2.65**
4x4	2	6	4424	**4.75**
4x4	3	9	4436	**7.35**
4x4	4	12	4448	**8.25**
4x4	5	15	4460	**9.**
4x6	1	3½	4612	**5.35**
4x6	2	7	4624	**6.65**
4x6	3	10½	4636	**9.30**
4x6	4	14	4648	**12.**
6x6	1	4	6612	**6.05**
6x6	2	8	6624	**8.**
6x6	3	12	6636	**12.**
6x6	4	16	6648	**15.75**

Size	Combination Knockouts or Description	Wt. Lbs.	Cat. No.	List Price
ENDS				
4x4	½-¾-1-1¼	¼	44E	**$ .70**
4x6	½-¾-1-1¼	½	46E	**.85**
6x6	1¼-1½-2	1	66E	**1.20**
CONNECTORS				
4x4	Connector	¼	44C	**$ .70**
4x6	Connector	½	46C	**.85**
6x6	Connector	1	66C	**1.10**
ELBOWS				
4x4	Elbow	3	44L	**$6.65**
4x6	Elbow	4	46L	**8.**
6x6	Elbow	5	66L	**9.30**
TEES				
4x4	Tee	4	44T	**$ 9.30**
4x6	Tee	5	46T	**17.55**
6x6	Tee	7	66T	**19.95**

SQUARE D CIRCUIT BREAKER DISTRIBUTION PANELETTES

WITH PLUG-IN TYPE MO4 THERMAL-MAGNETIC MULTI-BREAKER BRANCHES



★ Basic Device
Cat. No. P29-204M

PLUG-IN

FLEXIBLE DESIGN

Flexible design and convenient packaging provide off-the-shelf service for all job requirements from modest stocks without excessive handling and record keeping.

- - - 2 to 40 Circuits - - - Lugs or Circuit Breaker Mains



● "Plug-In" Breaker

★ **BASIC DEVICE** consists of box and bus bar assembly with neutral. Space is available for installation of twelve branch poles in the NMO-12 basic device, twenty branch poles in the NMO-20 basic device, twenty-eight branch poles in the NMO-28 basic device, and forty branch poles in the NMO-40 basic device.

Carton used for packing basic device is designed to receive the plug-in breakers when selected.

NMO Panelettes are available for 1 phase, 3 wire, or 3 phase, 4 wire services with lugs only or circuit breaker mains.

● **PLUG-IN BREAKERS** listed below extend the range of the NMO Panelette basic devices in 2 circuit steps and in exact combinations required for each job. These plug-in breakers are identical to and interchangeable with those used in the MO-12 and MO-20 load centers.

They are individually packaged, but can be added to the basic device carton after selection.

COMPLETE DEVICE PRICE TABLE
Includes Basic Device, Trim and Plug-In Breakers

MAINS: LUGS ONLY

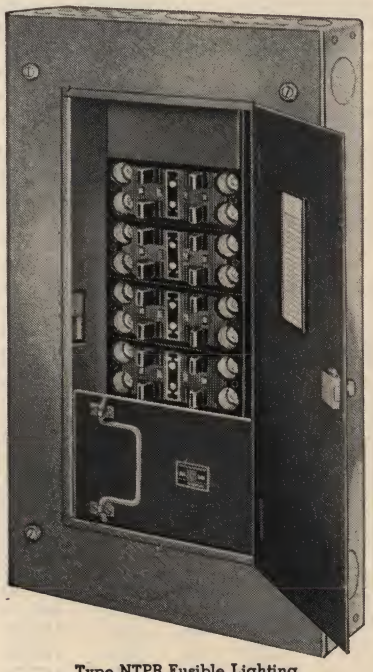
No. of 1-Pole Branches	Type NMO-12 No. of 1-Pole Spaces	Type NMO-12 Complete List Price ★	Type NMO-20 No. of 1-Pole Spaces	Type NMO-20 Complete List Price ★	Type NMO-28 No. of 1-Pole Spaces	Type NMO-28 Complete List Price ★	Type NMO-40 No. of 1-Pole Spaces	Type NMO-40 Complete List Price ★
0	12	$ 57.	20	$ 73.	28	$ 88.	40	$108.
2	10	62.	18	78.	26	93.	38	113.
4	8	65.	16	81.	24	96.	36	116.
6	6	70.	14	86.	22	101.	34	121.
8	4	73.	12	89.	20	104.	32	124.
10	2	78.	10	94.	18	109.	30	129.
12	0	81.	8	97.	16	112.	28	132.
14	...		6	102.	14	117.	26	137.
16	...		4	105.	12	120.	24	140.
18	...		2	110.	10	125.	22	145.
20	...		0	113.	8	128.	20	148.
22	...		...		6	133.	18	153.
24	...		...		4	136.	16	156.
26	...		...		2	141.	14	161.
28	...		...		0	144.	12	164.
30	...		...		...		10	169.
32	...		...		...		8	172.
34	...		...		...		6	177.
36	...		...		...		4	180.
38	...		...		...		2	185.
40	...		...		...		0	188.

MAIN : 2 POLE CIRCUIT BREAKER

No. of 1-Pole Branches	Type NMO-12 No. of 1-Pole Spaces	Type NMO-12 Complete List Price ★	Type NMO-20 No. of 1-Pole Spaces	Type NMO-20 Complete List Price ★	Type NMO-28 No. of 1-Pole Spaces	Type NMO-28 Complete List Price ★	Type NMO-40 No. of 1-Pole Spaces	Type NMO-40 Complete List Price ★
0	12	$ 94.	20	$110.	28	$260.	40	$280.
2	10	99.	18	115.	26	265.	38	285.
4	8	102.	16	118.	24	268.	36	288.
6	6	107.	14	123.	22	273.	34	293.
8	4	110.	12	126.	20	276.	32	296.
10	2	115.	10	131.	18	281.	30	301.
12	0	118.	8	134.	16	284.	28	304.
14	...		6	139.	14	289.	26	309.
16	...		4	142.	12	292.	24	312.
18	...		2	147.	10	297.	22	317.
20	...		0	150.	8	300.	20	320.
22	...		...		6	305.	18	325.
24	...		...		4	308.	16	328.
26	...		...		2	313.	14	333.
28	...		...		0	316.	12	336.
30	...		...		...		10	341.
32	...		...		...		8	344.
34	...		...		...		6	349.
36	...		...		...		4	352.
38	...		...		...		2	357.
40	...		...		...		0	360.



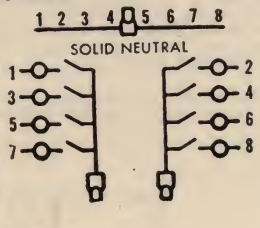
Complete NMO-20 Panelette with Circuit Breaker Mains.



Type NTPR Fusible Lighting Panelboard with Main Switch.

WITH SINGLE POLE 30 AMP. HEAVY DUTY TUMBLER SWITCH AND PLUG FUSIBLE BRANCHES

TYPE NTPR-3 — **1φ. 3W. S/N A.C. Only Plug Fusible — 1 Pole Switch**



MAINS: 125/250 V. A. C.
BRANCHES: Single Pole 30 Amp. 125 V. 2-Wire S/N Tumbler Switch, Plug Fusible.
BOXES: 200 A. Main Switches — 20" wide; all others — 17" wide.
FRONTS: Single Door Type with Flush Lock.
GUTTERS: 4" Sides and Ends.

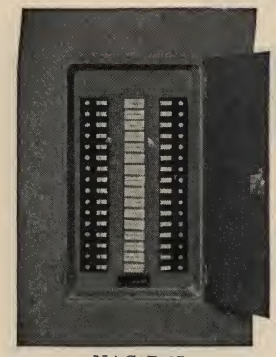
MAINS: LUGS ONLY

No. Branches	Amp. Mains	*Catalog No.	Box Height	List Price
4	30	NTPR 04-3L	14	$ 43.
8	60	NTPR 08-3L	14	50.
12	60	NTPR 12-3L	19	62.
16	100	NTPR 16-3L	26	92.
20	100	NTPR 20-3L	29	105.
24	200	NTPR 24-3L	32	127.
28	200	NTPR 28-3L	35	139.
32	200	NTPR 32-3L	38	152.
36	200	NTPR 36-3L	41	175.
40	200	NTPR 40-3L	44	189.

*Surface or Flush: When ordering add suffix letter "S" or "F" to catalog number to indicate surface or flush mounting.

F.A. LIGHTING PANELBOARDS

TYPE A.C.
ONE POLE BREAKER
SOLID NEUTRAL



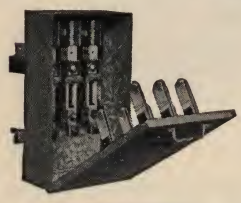
NAC1B-3L

PANELBOARD—Made of sections of moulded material.
MAINS—3 Wire, 115-230 Volt, Solid Neutral; for A. C. Feeder Systems only.
BRANCHES—*15 Amp., 120 Volt, S. P., Type A. C. Thermag Circuit Breaker for 115 Volt, 2 Wire, Solid Neutral Circuits.
BOX—Code Thickness Galvanized Steel. Gutters as noted.
FRONT—Code Thickness Furniture Steel. Rust-proof and Pearl Grey Finish. Flush Mounting unless Surface is ordered.

MAIN CABLE LUGS ONLY, SOLID NEUTRAL

Combination Panelboard Box and Front No.	Amp. Main Bus Bar	Inside Dimensions and Marking of Box Wide	High	Deep	Approx. Wgt.	List Price Each
Single Row, 3" Gutters						
NAC1B04-3L07	4	70	12	12½	4	26	**$65.00**
NAC1B06-3L07	6	70	12	14½	4	30	**74.00**
NAC1B08-3L07	8	70	12	16½	4	34	**83.00**
NAC1B10-3L07	10	70	12	18½	4	38	**92.00**
NAC1B12-3L10	12†	100	12	20½	4	45	**101.00**
NAC1B14-3L10	14†	100	12	22½	4	50	**110.00**
NAC1B16-3L10	16†	100	12	24½	4	55	**120.00**
NAC1B18-3L10	18†	100	12	26½	4	60	**129.00**
Double Row, 4" Gutters						
NAC1B12-3L10	12†	100	19	18½	4¾	58	**101.00**
NAC1B14-3L10	14†	100	19	18½	4¾	59	**111.00**
NAC1B16-3L10	16†	100	19	21½	4¾	67	**120.00**
NAC1B18-3L10	18†	100	19	21½	4¾	68	**129.00**
NAC1B20-3L10	20	100	19	21½	4¾	69	**138.00**
NAC1B22-3L20	22	200	19	24½	4¾	76	**147.00**
NAC1B24-3L20	24	200	19	24½	4¾	77	**156.00**
NAC1B26-3L20	26	200	19	27½	4¾	85	**165.00**
NAC1B28-3L20	28	200	19	30½	4¾	86	**174.00**
NAC1B30-3L20	30	200	19	30½	4¾	94	**183.00**
NAC1B32-3L20	32	200	19	30½	4¾	95	**192.00**
NAC1B34-3L20	34	200	19	33½	4¾	98	**202.00**
NAC1B36-3L20	36	200	19	33½	4¾	103	**211.00**
NAC1B38-3L20	38	200	19	33½	4¾	104	**220.00**
NAC1B40-3L20	40	200	19	36½	4¾	105	**229.00**

*List prices are based on 15-Ampere S. P. breakers. 20-, 30-, 40-, and 50-Ampere S. P. breakers will be supplied at same price except when increased capacity bus bars are required.
These panelboards can be supplied with a maximum of two double pole, individual trip circuit breakers. Price as standard panelboard with equivalent TOTAL number of poles, NOT CIRCUITS, and ADD $1.00 for EACH D. P. substituted for two S. P.
†12-, 14-, 16-, and 18-Circuit Panelboards ALWAYS FURNISHED IN SINGLE ROW Type, unless order specifies TWO ROW.



KLAMPSWFUZ
PISF-20333

F.A. PLUG-IN DEVICES

KLAMPSWFUZ SWITCH WITH KAMKLAMP FUSEHOLDERS

Two Pole

No.	Volts	Amps.	List Price Each
PISF- 3322	250	30	**$20.00**
PISF-.6322	250	60	**20.00**
PISF-10322	250	100	**29.00**
PISF-20322	250	200	**79.00**
PISF- 3622	600	30	**20.00**
PISF- 6622	500	60	**20.00**
PISF-10622	600	100	**33.00**
PISF-20622	600	200	**84.00**

SHULTBRAK SWITCH WITH KAMKLAMP FUSEHOLDERS

No.	Volts	Amps.	List Price Each
PISA- 3322	250	30	**$29.00**
PISA- 6322	250	60	**33.00**
PISA-10322	250	100	**50.00**
PISA-20322	250	200	**87.00**
PISA- 3622	600	30	**29.00**
PISA- 6622	600	60	**33.00**
PISA-10622	600	100	**57.00**
PISA-20622	600	200	**96.00**

F.A. ENCLOSED PANELBOARDS

ONE FUSE—SOLID NEUTRAL
SAFETY TYPE



NR3G

BRANCHES—Single Pole plug fuse branches for 15 Amp. 120 volt, 2 wire solid neutral circuits.
BOX—Code thickness galvanized steel: 2 to 12 branches 1½" gutters; 14 to 20 branches 3" gutters top and bottom, 2½" gutters at side.
FRONT—Code thickness furniture steel, rust-proof, and Pearl Gray Finish. Flush and Surface Mounting. Ring catch on door.

PANELBOARDS

3 WIRE MAIN CONNECTION

No. Flush Mounting	Surface Mounting	Amp. Main Bus Br.	Bar	Width	High	Deep	Std. Pkg.	Wgt. Lbs.	List Price Each
R3-4F	**R3-4S**	4	30	7½	8	3	10	50	**$ 6.00**
R3-6F	**R3-6S**	6	42	7½	9½	3	6	48	**8.00**
R3-8F	**R3-8S**	8	60	7½	14	3	4	44	**10.00**
R3-10F	**R3-10S**	10	60	7½	15½	3	4	56	**15.00**
R3-12F	**R3-12S**	12	60	7½	17	3	4	68	**20.00**
R3-14F	**R3-14S**	14	100	9	22	3⅝	2	40	**31.00**
R3-16F	**R3-16S**	16	100	9	24	3⅝	2	46	**33.00**
R3-18F	**R3-18S**	18	100	9	26	3⅝	2	52	**36.00**
R3-20F	**R3-20S**	20	100	9	28	3⅝	2	58	**38.00**

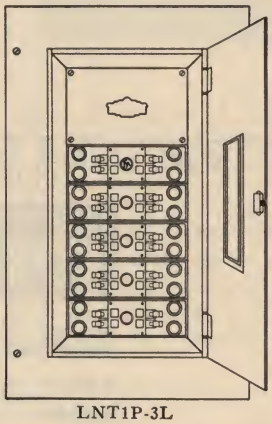
NR3G PANELBOARDS

Specifications as Above except Box Has 3" Gutters and Door Has Catch Lock

NR3G04F	**NR3G04S**	4	60	12	13½	4	..	20	**$31.00**
NR3G08F	**NR3G08S**	8	60	12	16½	4	..	25	**36.00**
NR3G12F	**NR3G12S**	12	60	12	19½	4	..	35	**42.00**
NR3G16F	**NR3G16S**	16	100	12	25½	4	..	45	**47.00**
NR3G20F	**NR3G20S**	20	100	12	28½	4	..	50	**52.00**

F.A. PANELBOARDS AND CABINETS

ONE-FUSE TYPE



LNT1P-3L

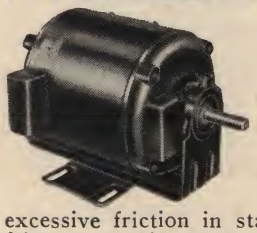
PANELBOARD—Made of sections of brown Bakelite.
MAINS—3 Wire, 125-250 Volt, Solid Neutral.
BRANCHES—30 Amp., S. P. Tumbler Switches with N. E. C. Plug Type Fuse Connections for 15 Amp., 125 Volt, 2 Wire, Solid Neutral Circuits.
BOX—Code Thickness Galvanized Steel. 4" Gutters.
FRONT—Code Thickness Furniture Steel. Rust-proof and Pearl Grey Finish. Flush Mounting unless Surface is ordered.

MAIN CABLE LUGS ONLY, SOLID NEUTRAL

Combination Panelboard Box and Front No.	Amp. Main Bus Bar	Inside Dimensions and Marking of Box Wide	High	Deep	Approx. Wgt.	List Price Each
LNT1P04-3L03	4	30	19	18½	4¾	37	**$62.00**
LNT1P08-3L06	8	60	19	21½	4¾	44	**78.00**
LNT1P12-3L06	12	60	19	24½	4¾	51	**94.00**
LNT1P16-3L10	16	100	19	27½	4¾	65	**109.00**
LNT1P20-3L10	20	100	19	30½	4¾	72	**125.00**
LNT1P24-3L20	24	200	19	33½	4¾	79	**140.00**
LNT1P28-3L20	28	200	19	39½	4¾	94	**156.00**
LNT1P32-3L20	32	200	19	42½	4¾	100	**172.00**
LNT1P36-3L20	36	200	19	45½	4¾	170	**187.00**
LNT1P40-3L20	40	200	19	48½	4¾	180	**203.00**

WAGNER ELECTRIC MOTORS

TYPE RA REPULSION START—INDUCTION SINGLE-PHASE



For High Starting Torque; Heavy-Duty Applications. Annular Resilient; Mounted Repulsion; Start Induction Motor—66 Frame.

Because of their high starting torque and low starting-current characteristics, repulsion start induction motors are suitable for driving machines with high inertia and machines involving excessive friction in starting. Recommended for mechanical refrigerators, air-compressors, pumps, coal stokers, various machine tools, large-size oil burners, coffee and meat grinders, conveyors. It is applicable to a wide variety of other appliances, and is recommended as the most satisfactory motor for general use.

FRACTIONAL HORSEPOWER—SLEEVE-BEARING
60 CYCLE—115/230 VOLTS

Rating				List Price Each			
HP	F. L. RPM (Aprx.)	Class	Frame	Model B	Model C	Model R	Model S
1/6	1140	B	X66	$65.50	$69.25	$67.60	$71.35
1/4	1140	B	Y66	83.95	87.70	86.05	89.80
1/3	1140	C	75V	94.00	97.75	98.50	102.25
1/2	1725	C	X66	86.10	89.85	90.60	94.35
	1140	C	75W	112.75	116.50	117.25	121.00
3/4	1725	C	Y66	110.30	114.05	114.80	118.55

INTEGRAL H.P.—SLEEVE OR BALL-BEARING
60 CYCLE—110/220 VOLTS

H.P.	R.P.M.	Frame	Sleeve-Bearing	Ball-Bearing
1	1750	203	$ 160	$160
	1160	224	288	288
1½	1750	204	209	209
	1160	225	364	364
2	1750	224	281	281
	1160	254	533	533
3	1750	225	356	356
	1160	11X	646	646
5	1750	254	533	533
	1160	13V	754	754
7½	1750	13V	754	754
	1160	15T	1069	....
10	1750	15T	995	....
	1160	15V	1321	....
15	1750	15V	1321	....

TYPE RB SPLIT-PHASE



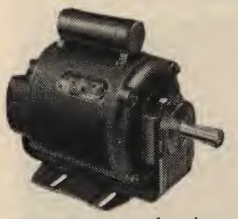
Typical rigid-mounted type RB, split-phase motor. Type RB motors have two stator windings, one winding in use at all times and the other (auxiliary) winding during the starting period only. Cast aluminum squirrel-cage rotors are provided with a governor mechanism which operates a quick-break switch, disconnecting the starting winding, as soon as the motor reaches operating speed.

These motors are used extensively on unit-heaters, oil-burners, and an endless variety of machinery used in offices, factories, and homes. Two factors limit their use—starting torque is low and starting-current is high, as compared with repulsion start induction motors.

OPEN—GENERAL-PURPOSE—40°C CONTINUOUS DUTY
SPLIT PHASE—TYPE RB—SINGLE-PHASE—60 CYCLE

Rating					List Price Each
HP	F. L. RPM Aprox.	Class	Volts	Frame	Model R
1/20	1725	B	115	W42	$35.00
	1725	B	230	W42	38.75
	1140	B	115	V56	42.45
	1140	B	230	V56	46.15
1/12	1725	B	115	V56	35.00
	1725	B	230	V56	38.75
	1140	B	115	V56	47.45
	1140	B	230	V56	51.20
1/6	1725	B	115	V56	34.10
	1725	B	230	V56	37.85
	1140	B	115	V56	55.50
	1140	B	230	V56	59.25
1/4	1725	B	115	V56	37.40
	1725	B	230	V56	41.15
1/3	1725	B	115	W56	46.85
	1725	B	230	W56	50.60

TYPE RK CAPACITOR-START SINGLE-PHASE MOTORS



Type RK motor with annular resilient mounting. Rigid and resilient mounted motors have two stator windings and an electrolytic condenser, one winding (auxiliary) and the condenser in use during the starting period only. Cast aluminum squirrel-cage rotors are provided with a governor mechanism which operates a quick-break switch, disconnecting the starting winding, as soon as the motor reaches operating speed. Motors are suitable for driving devices having higher starting duty requirements than applications that can be efficiently driven by split-phase motors. Are applicable to refrigerators, oil-burners, stokers, and other household appliances.

OPEN—GENERAL-PURPOSE
40°C—CONTINUOUS DUTY—60 CYCLE
CAPACITOR-START

Rating					List Price Each		
HP	F. L. RPM Aprox.	Class	Volts	Frame	Model B	Model C	Model R	Model S
1/6	1725	B	115	V56	$37.90	$40.80	$40.00	$42.90
	1725	B	230	V56	41.65	44.55	43.75	46.65
1/4	1725	B	115	V56	42.15	45.05	44.25	47.15
	1725	B	230	V56	45.90	48.80	48.00	50.90
1/3	1725	B	115/230	W56	60.30	64.05	62.40	66.15
1/2	1725	C	115/230	W66	86.10	89.85	90.60	94.35
3/4	1725	C	115/230	X66	110.30	114.05	114.80	118.55

TYPE CP & HP POLYPHASE MOTORS



TOTALLY ENCLOSED—FAN COOLED—BALL BEARING

3 or 2-Phase Motors, 60 Cycle, 220/440, 550 Volts, Squirrel-Cage Induction, Normal Starting-Torque 55° C., Continuous Duty Types CP1, CP1 Class II Group G, HP1 Class I Group D.

Enclosed fan-cooled motor has a defined mission of serving where dust, fumes, and moisture are present in sufficient quantities to necessitate protection to motor.

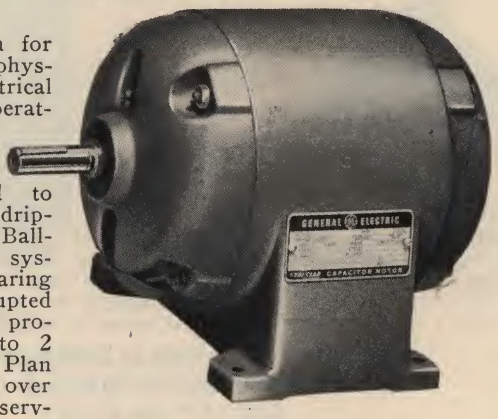
Rating			LIST PRICE EACH		
HP	Approx. F. L. RPM	Frame	Type CP1 Standard Motor	Type CP1, Class II—Group G Type HP1, Class I—Group D	Approx. F.L. Amperes (CP1, 220V, 3 phase)
2	1750	224	$ 230	$ 282	5.8
	1160	225	248	300	6.6
3	1750	225	248	300	8.4
	1160	254	296	364	9.6
5	1750	254	296	364	13.6
	1160	284	396	468	15.0
7½	1750	284	396	468	20.0
	1160	324	514	606	21.6
10	1750	324	514	606	26.4
	1160	326	584	676	28.0
15	1750	326	584	676	39.0
	1160	364	790	926	40.0
20	1750	364	790	926	51.0
	1160	365	966	1102	53.0
25	1750	365	937	1073	62.0
	1160	404	1184	1384	64.0
30	1750	404	1086	1286	74.0
	1160	405	1388	1588	76.0
40	1750	405	1349	1549	98.0
	1160	444	1734	2008	100.0
50	1750	444*	1750	2024	122.0
	1160	445	2090	2364	126.0

LARGER SIZES PRICES ON APPLICATION

*Class I Group D hazardous locations—Atmospheres containing gasoline, petroleum, naphtha, alcohols, acetone, lacquer solvent vapors, and natural gas. Class II Group G hazardous locations—Atmospheres containing grain dust.

GENERAL ELECTRIC MOTORS

TRI-CLAD INTEGRAL-H.P.—SINGLE PHASE INDUCTION—OPEN (DRIPPROOF)—HORIZONTAL



• Tri-Clad design for protection against physical damage, electrical breakdown, and operating wear and tear. • Dripproof construction with no openings exposed to falling objects or dripping liquids. • Ball-bearing lubrication system for long bearing life and uninterrupted service. • Thermal protection available to 2 h.p. • Exchange Plan for time saving over customary repair service.

H.P. Cont. 40 C Rise	Speed Rpm Full-load. Approx.	Frame Ball Bearings	Type KCS Capacitor-motor—NEMA Design L* Volts	Type KCS List Pr. Ea. Motor Only	Type SCR Repulsion-induction—NEMA Design M Volts	Type SCR List Pr. Ea. Motor Only
¾	1165	204	115/230	$223.00	.....	.....
1	1710	203	115/230	144.00	.....	.....
1	1140	224	115/230	288.00	.....	.....
1½	3425	203	115/230	147.00	.....	.....
1½	1710	204	115/230	188.00	.....	.....
1½	1140	225	115/230	364.00	.....	.....
2	3425	204	115/230	205.00	.....	.....
2	1710	224	115/230	253.00	.....	.....
2	1160	254	.....	.....	115/230	$533.00
3	3425	224	115/230	300.00	.....	.....
3	1710	225	115/230	320.00	.....	.....
3	1160	255	.....	.....	115/230	646.00
5	3425	225	230	414.00	.....	.....
5	1745	254	.....	.....	115/230	533.00
5	1160	324	.....	.....	115/230	754.00
7½	1745	324	.....	.....	230	754.00
7½	1160	326	.....	.....	230	1069.00
10	1745	326	.....	.....	230	995.00

*For motors with NEMA Design M characteristics refer to your motor supplier, or your nearest G-E Sales Office.

FRACTIONAL—HORSEPOWER—SINGLE-PHASE

TYPE KH, SPLIT-PHASE MODERATE STARTING TORQUE



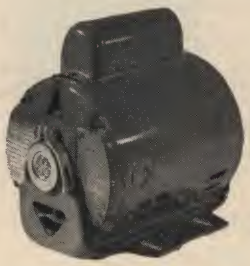
Where to Use.

Ideally suited for applications requiring an inexpensive motor with moderate-starting torque. Major applications are air conditioning fans and blowers, office devices, and other similar industrial devices.

115 Volts—60 Cycles

H.P.	Rpm	Solid Base Model No.	List Price Each	Resilient Base	List Price Each
1/20	1725	5KH23AC304	$36.20	5KH23AC305	$38.20
1/6	1725	5KH33GG12	30.25	5KH33GG11	32.35
1/4	1725	5KH35KG	32.05	5KH35KG3	34.05
Type KH Special Service Wash Machine Motors, High Starting Torque, 60 Cycles					
1/4	1725	5KH33GG2	$27.80	5KH33GG6	$29.80
1/3	1725	5KH45KB22	29.00	5KH35KG13	31.05

TYPE KC—CAPACITOR-START SINGLE-PHASE, DRIPPROOF, GENERAL-PURPOSE SLEEVE-BEARING—40C RISE—CONTINUOUS, CONSTANT SPEED



Where to Use.

For applications which require high starting torque such as commercial refrigeration, water-pumping systems, air-conditioning compressors, industrial equipment and others.

60 Cycles

H.P.	Rpm	Volts	Solid Base Model No.	List Price Each	Resilient Base Model No.	List Price Each
1/6	1725	115	5KC43AB280	$36.20	5KC43AB282	$38.20
1/4	1725	115	5KC45AB1400	40.25	5KC45AB1402	42.25
1/3	1725	115/230	5KC42JG1	57.60	5KC42JG2	59.60
1/2	1725	115/230	5KC43NG1	74.05	5ICC43NG3	78.35
3/4	1725	115/230	5KC45PG1	94.80	5ICC45PG4	99.10
1	3450	115/230	5KC65EB4	95.30	5KC65EB6	99.60

TRI-CLAD SQUIRREL-CAGE INDUCTION OPE (DRIPPROOF)

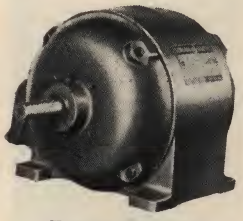
3 and 2 Phase 60 Cycles, 110 (Frames 326 and Smaller) Volts



Features—Designed for protection against physical damage, electrical breakdowns and operating wear and tear. • Dripproof construction with no openings exposed to objects or dripping liquids. • Ball-bearing lubrication system for long bearing life and uninterrupted service. • Exchange plan for ratings to 5 H.P. for time saving over customary repair service.

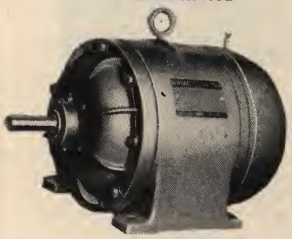
H.P. Cont 40 C Rise	Speed Rpm Full-load Approx.	Type K, Normal-starting-torque—NEMA Design B Frame	Type K List Pr. Ea. Motor Only Ball-bearing
1	1720	203	$117.00
1	1145	204	138.00
1½	1730	204	138.00
1½	1140	224	160.00
2	1735	224	160.00
2	1140	225	178.00
3	1725	225	178.00
3	1145	254	212.00
5	1735	254	212.00
5	1150	284	278.00
7½	1735	284	278.00
7½	1160	324	352.00
10	1740	324	352.00
10	1160	326	422.00
15	1745	326	422.00
15	1170	364	556.00

GENERAL ELECTRIC MOTORS



Totally Enclosed Nonventilated

Tri-Clad Integral—H.P. Squirrel-Cage Induction Motors—Totally Enclosed. Type K—Horizontal. 3- and 2-Phase —60 Cycle 110 (Frames 326 and smaller) Volts.



Totally Enclosed Fan Cooled

Features

• Tri-clad designed for protection against physical damage, electrical breakdown and operating wear and tear. • Ball-bearing lubrication system for long bearing life and uninterrupted service. • Cast-iron frame for resistance to corrosion. • Nonventilated construction in ratings to 5 H.P. for space and weight saving.

Hp. Cont 55 C Rise	Speed Full-load Approx. Rpm	Type K, Normal-starting-torque—NEMA Design A or B Frame Nonventilated	Frame Fan-cooled	Standard Encloser List Price Each	Explosion Proof List Price Each
1	1720	203	...	$150.00	$198.00
1	1140	204	...	176.00	228.00
1½	1730	204	...	176.00	228.00
1½	1145	224	...	194.00	246.00
2	1735	224	...	212.00	264.00
2	1160	225	...	234.00	300.00
3	1725	225	...	248.00	300.00
3	1155	254	...	296.00	364.00
5	1750	254	...	296.00	364.00
5	1150	...	284	396.00	468.00
7½	1730	...	284	396.00	468.00
7½	1155	...	324	514.00	606.00
10	1735	...	324	514.00	606.00
10	1155	...	326	584.00	676.00
15	1745	...	326	584.00	676.00
15	1170	...	364	790.00	926.00

STANDARD BASES

SLIDING

Frame	List Price Each
203, 204	$18.00
224, 225	18.00
254	24.00
258	30.00
324	40.00
326	40.00
364	50.00

WRITE OR CALL FOR INFORMATION ON OTHER SIZES OF MOTORS AND CONTROLS

GENERAL ELECTRIC MANUAL STARTERS

CR1061 CONTROLS



SINGLE-PHASE FRACTIONAL—H.P. 115/230 VOLTS A.C.

Application

Designed for starting and stopping single-phase fractional-h.p. motors.

Features

• Overcurrent protection provided by thermal overcurrent relays.

• Switch housing moistureproof. • Wiring terminals easily accessible from front. • Heaters easily installed. • Toggle mechanism indicates ON and OFF.

Poles	Type 1 General-purpose CR1061 Form	List Pr. Ea.	Type 3 and Type 5 Dust-tight and Weather-resisting CR1061 Form	List Pr. Ea.	Type 7 (Class 1, Group D) Hazardous Location CR1061 Form	List Pr. Ea.
1	H1A1	$5.80	H1A2	$23.10	H1A3	$23.10
2	H2A1	7.70	H2A2	23.90	H2A3	23.90

Price includes starter complete with relay heater which may be omitted or additional ones added for $0.80 each.

GENERAL ELECTRIC PUSH BUTTON STATION



CR2943 NA102A

Standard-duty stations are compact push-button units. The buttons are molded black plastic (STOP button red), and operate double-break silver contacts. Watertight enclosures are of heavy cast iron construction with wide flanges.



CR2943 NJ102A

No. of Buttons	Marking	Contacts Nmly. Open	Contacts Nmly. Closed	Type 1 General-purpose CR2943 Form	List Pr. Ea.	Type 4 Watertight CR2943 Form	List Pr. Ea.
1	Stop	..	1	NA101A	$5.50	AJ101A	$19.30
	Start	1	..	NA101B	5.50	AJ101B	19.30
2	Start-Stop	1	1	NA102A	5.50	NJ102A	19.30
	Raise-Lower	2	..	NA102B	6.80	.....	....
	Forward-Reverse	2	..	NA102D	6.80	.....	....
3	Forward-Reverse Stop	3	3	NA103A	16.50	.....	....
	Open-Close-Stop	3	3	NA103B	16.50	.....	....



CR1062 CONTROLS



Application

Designed for infrequent starting of small a.c. motors. Best used when mounted within sight of the machine being controlled. Cannot be used where undervoltage protection is required, or for remote or automatic operation.

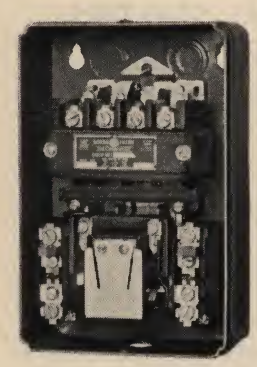
Features

• Overcurrent protection provided by thermal overcurrent relays. • Front-connected clamp-type terminals for easy wiring. • Vibration-resistant snap-action switch operating mechanism trips free on overcurrent and cannot be held closed. • Silver contacts. • Knockouts top, bottom, and sides for ½-inch and ¾-inch conduit. • Ample wiring space.

Size Switch	Max. Hp. Rating 110V	220V	440-660V	Type 1 (NEMA)—General-purpose Push-button Type CR1062 Form	List Pr. Ea.	Toggle Type CR1062 Form	List Pr. Ea.	Type 3, 4, or 5 Dust- and Water-tight Toggle Type CR1062 Form	List Pr. Ea.	Cl. 1 Gr. D, Type 7 Cl. 11 Gr. G, Type 9 Hazardous Locations Toggle Type CR1062 Form	List Pr. Ea.
SINGLE-PHASE											
0	1	1½	1½	M6A	$19.80	M5A	$19.80	M16A	$51.70	M19A	$66.00
1	1½	3	5	N6A	25.30	N5A	25.30	N16A	64.00	N19A	78.00
POLYPHASE											
0	1½	2	2	M2A	22.00	M1A	22.00	M14A	53.90	M17A	68.00
1	3	5	7½	N2A	27.50	N1A	27.50	N14A	66.00	N17A	80.00

Avalable in 4-pole forms.

HEATERS—Price includes starter complete with relay heaters which may be omitted or additional ones added for $1.70 each.



GENERAL ELECTRIC MAGNETIC STARTERS



OR 7006 1½ to 50 H.P.—Single Sped—Nonreversing
110, 208/220, 440-600 Volts—60-25 Cycles—1, 2, 3 Phase

Application:
Full-voltage, frequent start of A.C. motors. Suitable for push button station, control switch or with automatic control accessories. Undervoltage protection is obtainable by using momentary contact buttons or other accessories.

Ordering Direcions:
State **CR** number and form. Specify voltage and frequency of operating coil. Specify relay heater.

Example: To order a Type 1, 3-pole starter for a 5 H.P., 220 Volt, 3-Phase, 60-Cycle induction motor, select CR7006-C101B. Operating coil energized by 220 Volt, 60-Cycle circuit.

Maximum Horsepower Rating			Size	Poles	Open Starter	Type 1—General Purpose		Type 4—Water-tight		Type 5—Dust-tight		Hazardous Locations	
110 V	208/220 V	440/660 V			For Separate Push Button	For Separate Push Button	START-STOP Push Button in Cover	For Separate Push Button	START-STOP Push Button in Cover	For Separate Push Button	START-STOP Push Button in Cover	Type 7 Cl. I, Gr. D for Separate Push Button	Type 9 Cl. II, Gr. G for Separate Push Button
3- AND 2-PHASE													
1½	2	2	0	3	$ 35.80 B101A	$ 38.50 B101B	$ 44.00 B101C	$ 74.00 B101E	$ 93.80 B101F	$ 74.00 B101G	$ 93.80 B101H	Use Size	$ 74.00 B105A
1½	2	2	0	4	44.00 B102A	46.80 B102B	52.30 B102C	86.00 B102E	105.80 B102G	86.00 B102G	105.80 B102H	1	86.00
3	5	7½	1	3	41.30 C101A	44.00 C101B	49.50 C101C	80.00 C101E	99.80 C101F	80.00 C101G	99.80 C101H	$146.00 C104A	80.00 C105A
3	..	7½	1	4	49.50 C102A	52.30 C102B	57.80 C102C	90.00 C102E	109.80 C102F	90.00 C102G	109.80 C102H	154.00	90.00
7½	15	25	2	3	74.00 D101A	84.00 R101B	95.00 D101C	156.00 D101E	178.00 D101F	128.00 D101G	150.00 D101H	260.00 D104A	190.00 D105A
7½	15	25	2	4	90.00 D102A	100.00 D102B	111.00 D102C	204.00 D102E	226.00 D102F	156.00 D102G	178.00 D102H	306.00	238.00
15	30	50	3	3	118.00 E101A	138.00 E101B	154.50 E101C	240.00 E101E	262.00 E101F	190.00 E101G	212.00 E101H	372.00 E104A	284.00 E105A
15	30	50	3	4	150.00 E102A	168.00 E102B	184.50 E102C	298.00 E102E	320.00 E102F	248.00 E102G	270.00 E102H	446.00	502.00
25	50	100	4	3	266.00 D54V	308.00 D54B	324.50 D54E	482.00 D54P	504.00 D54S	394.00 D54L	416.00 D54AD		556.00 G4B
25	50	100	4	4	364.00	404.00 D54C	420.50	650.00	672.00	520.00	542.00		750.00
50	100	200	5	3	552.00 D38B	622.00 D38A	655.00	822.00 D38BG	874.00	822.00 D38C	874.00 D38AA		
50	100	200	5	4	726.00	745.00	827.00	1086.00	1138.00	996.00	1048.00		
SINGLE-PHASE													
1	1½	1½	0	2	$ 30.30 B100A	$ 33.00 B100B	$ 38.50 B100C	$ 68.00 B100E	$ 87.80 B100F	$ 68.00 B100G	$ 87.80 B100H	Use Size 1	$ 68.00
1½	3	5	1	2	35.80 C100A	38.50 C100B	44.00 C100C	74.00 C100E	93.80 C100F	74.00 C100G	93.80 C100H	$138.00	74.00
3	5	7½	1½	†4	46.80	49.50 C103A	55.00 C103B	88.00	107.80	Use Type 4	Use Type 4	152.00	88.00
3	7½	10	2	3	74.00 D101A	84.00 D101B	95.00 D101C	156.00 D101E	178.00 D101F	128.00 D101G	150.00 D101H	260.00 D104A	190.00 D105A
7½	15	25	3	3	118.00 E101A	138.00 E011B	154.50 E101C	240.00 E101E	262.00 E101F	190.00 E101G	212.00 E101H	372.00	284.00 E105A

†Two poles connected in parallel on each side of line. Maximum normal current not to exceed 30 amp, includes one overload relay. Price includes starter complete with relay heaters which may be omitted or additional ones added for $1.70.



G.E. REDUCED-VOLTAGE STARTERS

CR1034—Manual 5 to 200 H.P.
200, 440/550 Volts

Application
For starting three- and two-phase induction motors under conditions requiring reduced starting current in order to conform with power supply regulations or when it is desirable to limit starting torque to avoid excessive shock to the driven machine, connecting belts, couplings, or gears. These starters provide overload and undervoltage protection.

Features

• Several sets of reduced-voltage autotransformer taps provide easy means for adjusting starting torque and current of motor to suit load conditions. • Deadfront construction. • Undervoltage protection prevents automatic restarting after power interruption.

Rating of Starter		60 AND 50 CYCLES		
H.P. 2- and 3-phase 3-wire	Voltage Range	List Price Each	Form	Size
5, 7½, 10	220, 440/550	$310.00	K1	1
15	220, 440/550	310.00	K1	1
20	220, 440/550	324.00	K1	1
25	220, 440/550	324.00	K1	1
30	220, 440/550	336.00	K1	1
40	220	570.00	K1	2
	440/550	354.00	K1	1
50	220	588.00	K1	2
	440/550	354.00	K1	1
60	220, 440/550	610.00	K1	2
75	220, 440/550	632.00	K1	2
100	220	860.00	K33	3
	440/550	632.00	K1	2
125	220	902.00	K33	3
	440/550	686.00	K1	2
150	220	2354.00	K22	4
	440/550	686.00	K1	2
200	220	4228.00	H-424	..
	440/550	940.00	K33	3

Prices include overload relay and heaters.

ALLEN-BRADLEY Bulletin 600 MANUAL STARTING SWITCHES

The Bulletin 600 manual starting switches are designed for starting and protecting small A.C. and D.C. motors used with unit heaters, stokers, refrigerating compressors, fans, pumps, small machine tools, grinders, etc.



Bulletin 600's, open and in Nema Type 1 enclosure. At left can be seen the heater element for the thermal overload device.

They consist of an "On"-"Off" snap switch combined with a soldered ratchet type thermal overload device. The switch cannot be held closed under a sustained motor overload. To reset, the switch lever is moved to "Off." The motor can then be restarted by pushing the lever to "On."

Also available in open type. Open and Type 1 can be supplied as lever or key operated. Prices for lever operated only are shown below.

1 Pole { 1 H.P., 110-220 V, A.C. / No D.C. rating

2 Pole { 1 H.P., 110-220 V, A.C. / ¾ H.P., 115-230 V, D.C.

Form No.	No. of Poles	Nema Type 1 General Purpose		Nema Type 4 Watertight Weatherproof		Nema Type 7 Class 1—Group D Hazardous Gas Locations	
		Price	Cat. No.	Price	Cat. No.	Price	Cat. No.
51	1	$6.90	600TAX4	$23.10	600TCX4	$23.10	600TEX4
52	2	7.70	TAX5	23.90	TCX5	23.90	TEX5
61 110 Volts	1	21.20	TAD6	60.00	TCD6	60.00	TED6
61 220 Volts	1	21.20	TAA6	60.00	TCA6	60.00	TEA6
62 110 Volts	2	22.00	TAD7	60.00	TCD7	60.00	TED7
62 220 Volts	2	22.00	TAA7	60.00	TCA7	60.00	TEA7
71	1	21.20	TAX8	60.00	TCX8	60.00	TEX8
72 AC. Only	2	22.00	TAX9	60.00	TCX9	60.00	TEX9
92	2	22.00	TAX10	60.00	TCX10	60.00	TEX10

Prices include one Type P heater element at $ .80.

ALLEN-BRADLEY Bulletin 609 A.C. MANUAL STARTING SWITCHES



Bulletin 609, Size 0 switches in Nema Type 1 enclosures. At right the cover is removed, showing how ample wiring room is provided.

A compact, simple and rugged hand operated across-the-line starting switch for small A.C. motors. "Start" and "Stop" buttons operate the quick make-and-break switch mechanism. Has double break, silver alloy contacts that require no maintenance. Thermal overload relays provide accurate overload protection. Pressing the stop button resets the overload relays if they are tripped. A molded arc hood encloses each contact, preventing flashovers. White interiors and generous wiring space make installation easy. Available in three sizes for single phase and two sizes for 2 and 3 phase.

Size	MAXIMUM H.P. RATING 110v	208-220v	440-550v	Nema Type 1 Standard Price	Nema Type 1 Standard Cat.No.	Nema Type 4 Watertight Weatherproof Price	Nema Type 4 Watertight Weatherproof Cat.No.	Nema Type 7 Class 1—Group D Hazardous Gas Price	Nema Type 7 Class 1—Group D Hazardous Gas Cat No.
SINGLE PHASE									
0	1	1½	—	$19.80	609AAX	$51.70	609ACX	$66.00	609AEX
1	1½	3	—	25.30	BAX	64.00	BCX	78.00	BEX
1P	3	5	—	36.30	XAX	78.00	XCX	90.00	XEX
3 PHASE — 2 PHASE, 3 WIRE									
0	1½	2	2	22.00	AAW	53.90	ACW	68.00	AEW
1	3	5	7½	27.50	BAW	66.00	BCW	80.00	BEW
2 PHASE, 4 WIRE									
0	1½	2	2	33.00	AAY	64.00	ACY	80.00	AEY
1	3	5	7½	38.50	BAY	78.00	BCY	90.00	BEY

Prices of flush mounting and open types furnished upon request.
Prices include one Type N heater element for single phase switches and two for 2 and 3 phase switches. Elements are $1.70 each.
Size O enclosed switches are approved for Group fusing.

ALLEN-BRADLEY Bulletin 709-709SP A. C. ACROSS-THE-LINE SWITCHES

Bulletin 709 switches are designed for the across - the - line starting of polyphase squirrel cage motors and for the primary control of slip-ring motors. They can also be used for self-starting single phase motors, though for this purpose the Bulletin 709SP single phase switch is usually preferred due to its slightly lower cost. These switches may be operated by remote control with any form of two or three wire pilot device. The Bulletin 709 is a solenoid operated switch, having only one moving part. This part is the solenoid plunger which carries the movable contacts. The movable contacts bridge stationary contacts to connect the motor to the line. Each switch is equipped with two reliable overload relays.



Nema Type 1 *Nema Type 4* *Nema Type 7*

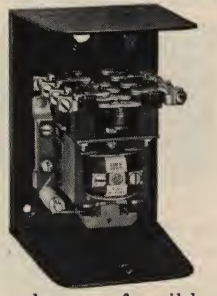
The three constructions, described as Forms 1, 2, and 3, are available in various types of enclosures and also in the open type. The Form 1 switch has a "Start-Stop" push button in the cover, while the Form 3 starter is provided with a "Hand-Off-Auto" selector switch. The Form 2 switch has a plain cover.

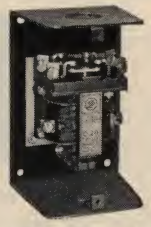
Bulletin 709SP switches are designed for use with self-starting single phase motors. These switches should only be used with motors that can be started at the full line voltage without damage. Construction is identical to the Bulletin 709 except that only one overload relay is used. The Bulletin 709SP has a dual voltage operating coil. Two separate windings are used, one with a terminal for 110 volt connections, the other with a terminal for 220 volt connections.

Starter Size	Volts	Max. H.P. 3 Ph / 2 Ph 3 W	Max. H.P. 1 Ph	Form	NEMA Type 1 General Purpose	NEMA Type 4 Watertight Weatherproof	NEMA Type 7 Class 1 Group D Location	OPEN TYPE
BULLETIN 709—3 PHASE; 2 PHASE, 3 WIRE								
0	110	1½	1	2	$38.50	$74	Use Size 1 Starter	$35.80
	208-220	2	1½					
	440-550	2	—	1 or 3	44	93.80		41.30
1	110	3	1½	2	44	80	$146	41.30
	208-220	5	3					
	440-550	7½	—	1 or 3	49.50	99.80	176.80	46.80
2	110	7½	3	2	84	156	262	74
	208-220	15	7½					
	440-550	25	—	1 or 3	95	178	295	85
3	110	15	7½	2	138	240	372	118
	208-220	30	15					
	440-550	50	—	1 or 3	154.50	262	—	134.50
4	208-220	50	—	2	308	482	608	266
	440-550	100	—					
5	208-220	100	—	2	622	822	—	552
	440-550	200	—					
6	208-220	200	—	2	1834	—	—	1488
	440-550	400	—					
7	208-220	300	—	2	2180	—	—	1834
	440-550	600	—					
BULLETIN 709SP								
0	110	—	1	2	33	68	Use Size 1 Starters	30.30
	220	—	1½	1 or 3	38.50	87.80		35.80
1	110	—	1½	2	38.50	74	138	35.80
	220	—	3	1 or 3	44	93.80	168.80	41.30
1P	110	—	3	2	49.50	88	152	46.80
	220	—	5	1 or 3	55	107.80	182.80	52.30

Prices include two Type N heater elements for Bulletin 709 and one for Bulletin 709SP at $1.70 each.

A-B Bulletin 700 A. C. CONTROL RELAYS





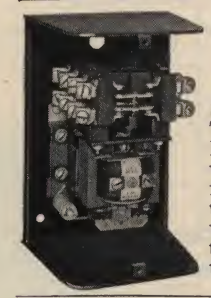
Above: Type C-20
At left: Type B-40

These relays are for oil burners, refrigerators, stokers and other similar applications requiring a small but rugged and reliable remote control switch. They are made in over 300 combinations of from one to twelve poles with normally open or normally closed contacts. Bulletin 700's are of the solenoid construction with double break, silver alloy contacts. Because there is practically no friction, operation is always consistent. There are no flexible jumpers. Furnished with or without enclosing cabinet.

Bulletin 700 relays are also available in type BT with a built-in transformer for reduced control voltage, type BA and BAT thermostat relays, type BM mechanically held relays, type CL designed for low coil current and type BX universal. (See next paragraph).

Max. Rating—10 Amp., Non-Inductive Load.
Standard Voltages—6, 12, 24, 32, 64, 110 and 220 volts. For 440 and 550 volts, add $2.80 to listed prices.
Standard Frequencies—25, 30, 50 and 60 cycles.

No. of Poles	Contacts NO	Contacts NC	OPEN TYPE Type No.	OPEN TYPE Price	NEMA Type 1 Type No.	NEMA Type 1 Price	NEMA Type 4 Type No.	NEMA Type 4 Price	NEMA Type 7 Type No.	NEMA Type 7 Price
1	1	0	C-100	$12.00	C-10	$14.50	C-104	$32.00	C-107	$68.00
	0	1	010	13.50	01	16.00	014	33.50	017	69.50
2	2	0	200	12.50	20	15.00	204	32.50	207	68.50
	1	1	110	14.00	11	16.50	114	34.00	117	70.00
	0	2	020	15.50	02	18.00	024	35.50	027	71.50
4	4	0	B-400	16.50	B-40	19.50	B-404	52.50	B-407	72.50
	3	1	310	18.00	31	21.00	314	54.00	317	74.00
	2	2	220	19.00	22	22.00	224	55.00	227	75.00
	1	3	130	20.50	13	23.50	134	56.50	137	76.50
	0	4	040	22.00	04	25.00	044	58.00	047	78.00

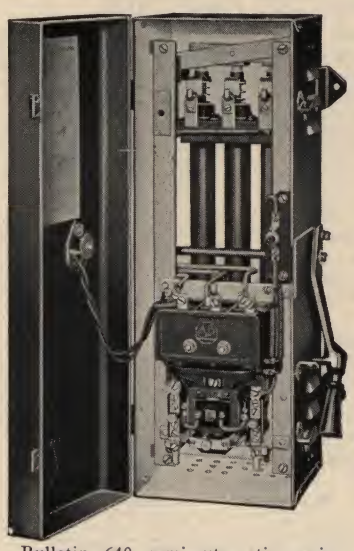


Bulletin 700 TYPE BX UNIVERSAL RELAYS

Switching poles of the Bulletin 700 Type BX can be changed from N.O. to N.C. by merely moving the incoming wiring connection to the pole. Referring to the photograph at left, connections to the top terminal on each side would produce N.O. and connections to the bottom terminal, N.C. Ratings are the same as for Type B relays.

No. of Poles	Contacts NO	Contacts NC	OPEN TYPE Type No.	OPEN TYPE Price	NEMA Type 1 Type No.	NEMA Type 1 Price	NEMA Type 4 Type No.	NEMA Type 4 Price	NEMA Type 7 Type No.	NEMA Type 7 Price
2	2	2	BX-220	$18.00	BX-22	$21.00	BX-224	$54.00	BX-227	$74.00
4	4	4	BX-440	23.50	BX-44	26.50	BX-444	59.50	BX-447	79.50
6	6	4	BX-640	33.00	BX-64	36.00	BX-644	69.00	BX-647	89.00
8	8	4	BX-840	38.50	BX-84	41.50	BX-844	74.50	BX-847	94.50

BULLETIN 640-A.C. MANUAL RESISTANCE TYPE STARTER



Bulletin 640 semi-automatic resistance starter for a 15-hp, 220 volt, 3-phase squirrel cage motor.

Application

Bulletin 640 semi-automatic resistance starters, which feature the graphite compression disc Bradleyunit resistors, are used for manually starting polyphase squirrel cage motors, where it is desirable that the load be accelerated very smoothly, or where the initial starting current must be kept down to prevent lamp flicker. With this starter there are no violent current inrushes at starting. Bulletin 640 starters are suitable for use on any application where the time required to bring the motor to full speed does not exceed 15 seconds. At least four minutes must elapse between repeated starts. Unless the Bulletin 640 starter is to be mounted in a separate control room, it should not be used within flour mills, grain elevators, or similar installations where dangerous dust hazards exist. For such applications the Bulletin 646 manual autotransformer-type starter in the Nema Type 9 enclosure should be used.

Operation

The hand lever mounted on the right side of all Bulletin 640 starters is used to control the compression of the graphite discs in the Bradleyunit resistors and thus obtain stepless control of the starting current. As the handle is raised, the resistance in the line becomes less and less, until at the "On" position, the Bradleyunits are shorted out by a magnetic contactor, two motor overload relays are introduced, and no-voltage protection is automatically provided. The starting lever is then returned to the "Off" position. The motor is stopped by pushing the molded "Stop" button mounted in the cover of the starter cabinet.

Features

With the Bulletin 640 starter, stepless acceleration of the motor is obtained under any and all load conditions. Bulletin 815 resistotherm inverse time limit relays provide complete motor overload protection. A push button for stopping the motor is mounted in the enclosure cover. This starter provides no-voltage protection. The cabinet is equipped with locking angles so that it can be locked to prevent tampering. Knockouts are in the top and bottom of the enclosure. Bulletin 640 starters are equipped with solenoid contactors having double break, silver alloy contacts which do not require cleaning or dressing.

BULLETIN 640

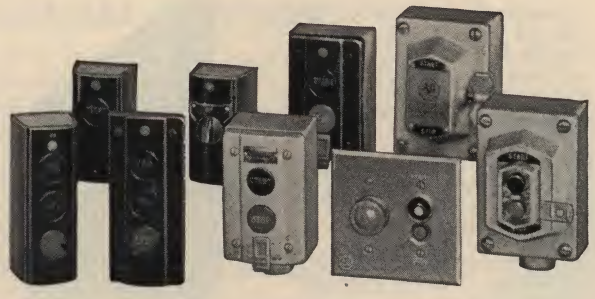
3 Phase—2 Phase, 3 Wire—2 Phase, 4 Wire
25-30-50-60 Cycles

Max. H.P.	208-220 Volts List Price Each	440-550 Volts List Price Each
5-7½-10	$310 (1)	$310 (1)
15	310 (1)	310 (1)
20-25	324 (2)	324 (3)
30	336 (2)	336 (2)
40	570 (4)	354 (2)
50	588 (4)	354 (2)

PRICES ON LARGER SIZES OF BULLETIN 640 STARTERS WILL BE SUPPLIED ON REQUEST.

ALLEN-BRADLEY Bulletin 800 PUSH BUTTON STATIONS





Two typical groups of Bulletin 800 push button stations. Above are standard duty stations in various enclosures. At left are heavy duty stations in Nema Type 1 enclosures and also for flush mounting.

Bulletin 800 Push Button Stations can be furnished with either standard duty or heavy duty ratings:

Heavy Duty: Heavy duty stations can have up to 8 units. Types of units available include push buttons for both momentary and maintained contact, mushroom head push buttons, pilot lights, selector switches and jogging buttons.

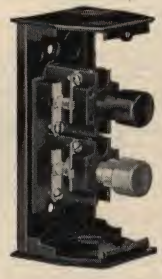
Each push button has one set of normally open contacts and one set of normally closed contacts. Pressing the button opens the NC contacts first, and as the button approaches the end of its stroke, closes the NO contacts.

Selector switches are of the maintained contact type and have either two or three positions. The jogging button is a combination push button and selector switch.

The price table shows a few of the most commonly used stations. Special stations can be made up to the users specifications whenever the station must have an unusual combination of units or more than 8 units.

Standard Duty: The standard duty stations can have 1, 2 or 3 units. Push buttons, pilot lights and selector switches are available, although a pilot light will be supplied only in combination with a "start"—"stop" station and selector switches will be supplied only as a single item. Push buttons are of the momentary contact type and each button has only one contact, either normally open or normally closed. The bakelite buttons have markings molded in the face.

The price table on this page is only a partial listing of the standard duty stations available. For additional stations see the A-B "Handy Catalog."





At left is a Type 2HA heavy duty station with cover removed to show accessibility of the units for wiring.



A close up of a typical heavy duty push button unit is shown at right. This is the same type of unit as used in the Type 2HA.

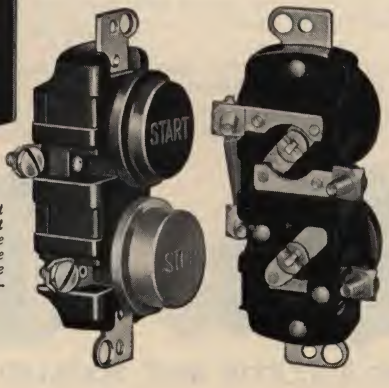
HEAVY DUTY

A.C. Ratings: 6 Amp, 110V; 3 Amp, 220V; 1.5 Amp, 110V; 1.2 Amp, 550V.
D.C. Ratings: 2.2 Amp, 115V; 1.1 Amp, 230V; 0.4 Amp, 550V.

Buttons	Button Marking	Nema Type 1		Nema Type 4		Nema Type 7	
		Type No.	Price	Type No.	Price	Type No.	Price
1	Stop	1HA	$11.00	1HA4	$30.30	1HA7A	$30.30
	Stop (With Locking Bar)	1HAW	13.80	—	—	—	—
	Stop (With Mushroom Head)	1HAG	13.80	—	—	—	—
	Start	1HB	11.00	1HB4	30.30	1HB7A	30.30
2	Start-Stop	2HA	16.50	2HA4	33.00	2HA7A	33.00
	Start-Stop (Locking Bar on Stop)	2HAW	19.30	—	—	—	—
	Start-Stop (Mushroom Head on Stop)	2HAG	19.30	—	—	—	—
	Start-Stop (Maintained Contact)	2HAM	16.50	2HAM4A	33.00	2HAM7A	33.00
	Forward-Reverse	2HB	16.50	2HB4	33.00	2HB7A	33.00
3	Forward-Reverse-Stop	3HA	22.00	3HA4	44.00	3HA7	58.00
	Raise-Lower-Stop	3HB	22.00	3HB4	44.00	3HB7	58.00
	Up-Down-Stop	3HC	22.00	3HC4	44.00	3HC7	58.00
	High-Low-Stop	3HE	22.00	3HE4	44.00	3HE7	58.00
	Fast-Slow-Stop	3HF	22.00	3HF4	44.00	3HF7	58.00
Selector Switches	Hand-Auto (2 Pos.)	R2HA	13.80	R2HA4	33.00	—	—
	Hand-Off-Auto (3 Pos.)	R4HA	13.80	R4HA4	33.00	—	—



At left is a Type 2SA standard duty station. This station is shown with a bakelite cover but it can also be supplied with a metal cover.



The two pictures at right show front and rear views of the units used in the Type 2SA. These are typical standard duty units.

STANDARD DUTY

A.C. Ratings: 3 Amp, 110V; 2 Amp, 220V; 1 Amp, 440-550V.
D.C. Ratings: 1 Amp, 115V; 0.5 Amp, 230V; 0.2 Amp, 550V.

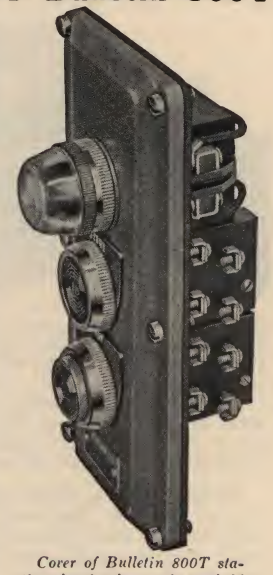
Buttons	Button Marking	Nema Type 1		Nema Type 4		Nema Type 7	
		Type No.	Price	Type No.	Price	Type No.	Price
1	Stop	1SA	$5.50	1SA4	$19.30	1SA7	$24.80
	Stop (Locking Bar on Stop)	1SAW	8.30	1SA4W	22.00	1SA7W	27.50
	Start	1SB	5.50	1SB4	19.30	1SB7	24.80
	Reset	1SG	6.90	1SG4	19.30	1SG7	24.80
2	Start-Stop	2SA	5.50	2SA4	19.30	2SA7	30.30
	Start-Stop (Locking Bar on Stop)	2SAW	8.30	2SA4W	22.00	2SA7W	33.00
	Forward-Reverse	2SB	6.90	2SB4	19.30	2SB7	30.30
	Up-Down	2SC	6.90	2SC4	19.30	2SC7	30.30
3	Forward-Reverse-Stop	3SA	16.50	3SA4	33.00	—	—
	Raise-Lower-Stop	3SB	16.50	3SB4	33.00	—	—
	Up-Down-Stop	3SC	16.50	3SC4	33.00	—	—
	Open-Close-Stop	3SD	16.50	3SD4	33.00	—	—
Selector Switch	Hand-Auto	R1SA	5.50	—	—	—	—
	Off-On	R1SC	5.50	—	—	—	—
Selector Switch	Hand-Off-Auto	R4SA	5.50	—	—	—	—

ALLEN-BRADLEY Bulletin 800T HEAVY DUTY OILTIGHT UNITS

Application—Bulletin 800T oiltight control units are intended to be used as pilot controls for both alternating and direct current magnetic contactors and motor control apparatus.

Although these units and stations were designed primarily to satisfy applications where an oiltight mechanism is needed, they can also be used as a substitute for any Nema Type 1 heavy duty station. Contact ratings are the same as the heavy duty, and the oiltight enclosure actually provides more protection than the Nema Type 1.

Types Available — These units are available in a variety of forms; included are momentary and maintained contact push buttons, two and three position selector switches, key operated buttons and selectors, jogging buttons and pilot lights.



Cover of Bulletin 800T station showing how units are held in place.

One of the greatest advantages of using Bulletin 800T stations, is the ease with which a Bulletin 800T station can be made up by the user. Instead of having to try to fill his needs by choosing from a limited number of ready-made stations carried in stock, he can purchase an enclosure and whatever units he may need. Obviously with this method it is possible to provide a much greater variety of stations than could be carried in stock completely assembled. The units can be installed in the cover of the enclosure or on a flush plate very quickly and easily.

Ratings—Contact ratings for all units except those indicated by this mark (★) are as follows:

A.C. 110V—6 Amps.
220V—3 Amps.
440V—1.5 Amps.
550V—1.2 Amps.

D.C. 115V—2.2 Amps.
230V—1.1 Amps.
550V—0.4 Amp.

Pushbutton units indicated thus (★) have A.C. ratings as shown above, but must take the following ratings when used on D.C.

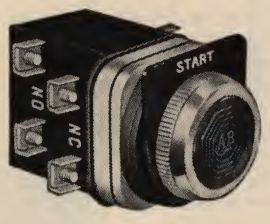
★ 115V—1 Amp., 230V—0.5 Amp., 550V—0.2 Amp.

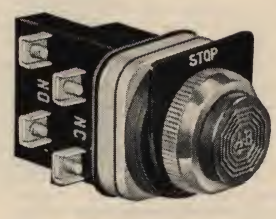
Type of Unit	Color of Button	1 N.O.-N.C. Contact		2 N.O.-N.C. Contacts	
		Type No.	Price	Type No.	Price
Start Type Button	Black Green	Z-5747 Z-5749	$5.60	Z-5757 Z-5759	$8.60
	Other Colors	①	6.30	①	9.30
Stop Button	Red Red‡	Z-5728 Z-5728W	5.60 8.40	Z-5738 Z-5738W	8.60 11.40
Mushroom Head Button	Black Red Green	Z-5767 Z-5768 Z-5769	8.30	Z-5777 Z-5778 Z-5779	11.30
	Other Colors	①	9.00	①	12.00
Sel. Sw. (2 pos.)	Black	Z-5723	6.90	Z-5725	9.90
Sel. Sw. (3 pos.)	Black	Z-5724★	6.90	Z-5726★	9.90
Jogging Button	Black	Z-5787★	8.30	Z-5797★	11.30
Maintained Contact Type	Black Black	Z-6978 (vert. mtg.) Z-6988 (horiz. mtg.)	10.90	Z-6062 (vert. mtg.) Z-6072 (horiz. mtg.)	14.00
Button with Cylinder Lock	See Handy Catalog for types Available.	—	14.30	—	17.20

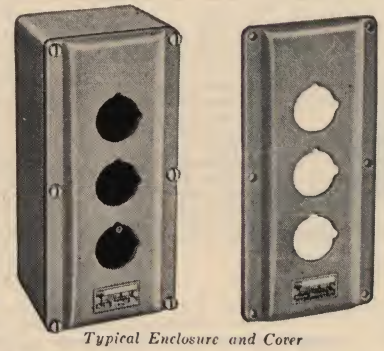
① For type Nos. see Handy Catalog.

PILOT LIGHTS

Volts	Transformer Type				Full Voltage Type			
	50-60 Cycles		25-30 Cycles		Filament Bulb		Neon Bulb	
	Type	Price	Type	Price	Type	Price	Type	Price
110	Z-5938	$11.00	Z-6003	$11.00	Z-6971	$9.00	Z-7155	$8.20
208-220	Z-5939	11.00	Z-6004	12.40	Z-6972	9.00	Z-7131	8.90
440	Z-5940	12.40	Z-6005	13.90	—	—	—	—
550	Z-5941	12.40	Z-6006	13.90	—	—	—	—







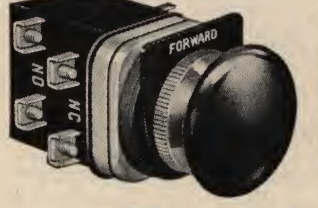
Typical Enclosure and Cover

Enclosure Size Number of Units	Enclosure Only	
	Type	Price
1	Z-7007	$9.70
2	Z-7008	11.00
3	Z-7009	12.40
4	Z-7010	19.30
6	Z-7011	24.80
9	Z-7012	35.80
12	Z-7013	49.50
16	Z-7014	66.00

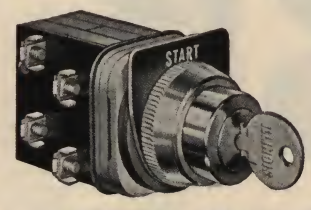
Oiltight control stations are made up by combining an enclosure and whatever units may be needed. Units are easily fitted into the enclosure cover and are held in place by an aluminum locking ring. Just how this is done can readily be seen in the picture at the top of the page.

The enclosures are made of cast aluminum and have a baked enamel finish of machine tool gray. They can be adapted for either vertical or horizontal mounting.

To determine the price of a complete station, add the prices of the enclosure and each individual unit used with it. These prices are given in the accompanying tables.









FOR A COMPLETE LISTING, REQUEST THE BULLETIN 800T BOOKLET

SQUARE D MANUAL STARTERS

FRACTIONAL HORSEPOWER MANUAL STARTER

FRACTIONAL HORSEPOWER MANUAL STARTERS

CLASS 2510

Fractional horsepower manual starters are used whenever it is desired to have overload protection as well as Off-On control of small A. C. single phase or D. C. motors. The motor is started at line voltage. Low voltage protection and low voltage release are not possible with these manually operated starters.

The compact construction permits mounting in small spaces. The open type starter fits in a standard switch or conduit box, and can be used with a standard flush plate. Instructions for resetting are given on an attractive nameplate furnished with each open type starter.



Class 2510
Type AG-4

115-230 VOLTS A. C. AND D. C. — **MELTING ALLOY TYPE THERMAL OVERLOAD RELAYS**

Description	Max. H. P. Rating 115 or 230 V.		General Purpose Enclosure NEMA Type I		*Water-Tight and Dust-Tight Enclosure NEMA Types IV & V		*For Hazardous Locations Class I, Group D Class II, Groups E, F & G NEMA Types VII & IX		Open Type	
	A. C. Single Phase	D. C.	Type	Price	Type	Price	Type	Price	Type	Price
1 Pole	1	½	AG-1	$ 6.90	AW-1	$23.10	AR-1	$23.10	AO-1	$ 5.80
2 Pole	1	1	AG-2	7.70	AW-2	23.90	AR-2	23.90	AO-2	6.60
1 Pole with Pilot Light	1	½	AG-3	$11.20	AW-3	$60.	....	....	....	....
2 Pole with Pilot Light	1	1	AG-4	12.	AW-4	60.	....	....	....	....
1 Pole with Lock-Off Guard	1	½	AG-7	$ 7.90	....	....	....	....	....	....
2 Pole with Lock-Off Guard	1	1	AG-8	8.70	....	....	....	....	....	....

Prices include one thermal overload relay unit. Deduct **$0.80** if relay unit is omitted. **Select relay unit from table below**
*Standard enclosure has one ¾" conduit fitting at top or bottom.

ORDERING INSTRUCTIONS: Specify Class and Type number of starter. Give horsepower, voltage, and full load motor current.

SQUARE D MANUAL STARTERS

LINE VOLTAGE TYPE

CLASS 2510

Line voltage manual starters are used where it is convenient for the operator to start and stop small single phase or polyphase motors by pressing push buttons mounted in the cover of the starter enclosure. Low voltage protection and low voltage release are not available with the manually operated mechanism. If power should fail, the starter contacts will remain closed until the stop button is operated.

Type W starters, operated from push buttons, employ melting alloy overload relay units. Types R and S starters have a toggle lever for operation, and use protected type melting alloy overload relays. The Types R and S enclosed starters may be group fused if all motors are rated 2 HP or less.



General Purpose Enclosure—Type W

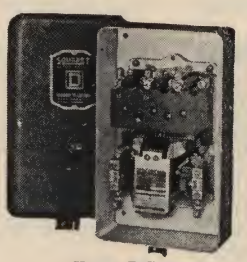
PUSH TYPE OPERATION
For General Purpose Applications — Melting Alloy Type Thermal Overload Relays

NON-REVERSING — **110-600 VOLTS**

No. of Poles	Size	Ratings: Volts	Ratings: Max. Horsepower Poly-Phase	Ratings: Max. Horsepower Single Phase	General Purpose Enclosure NEMA Type I: Type	General Purpose Enclosure NEMA Type I: Price	Water and Dust-Tight Enclosure NEMA Type IV and V: Type	Water and Dust-Tight Enclosure NEMA Type IV and V: Price	Class I Group D or Class II Groups E, F & G NEMA Types VII and IX: Type	Class I Group D or Class II Groups E, F & G NEMA Types VII and IX: Price	Open Type: Type	Open Type: Price
2	0	115	....	1	W-7	$ 19.80	W-8	$ 51.70	W-22	$ 66.	W-54	$ 18.20
		230	....	1½								
	1	115	....	1½	W-14	$ 25.30	W-15	$ 64.	W-24	$ 78.	W-55	$ 23.10
		230	....	3								
3	0	110	1½	1	W-5	$ 22.	W-6	$ 53.90	W-23	$ 68.	W-56	$ 20.40
		220	2	1½								
		440-550	2									
	1	110	3	1½	W-10	$ 27.50	W-11	$ 66.	W-25	$ 80.	W-57	$ 25.30
		220	5	3								
		440-550	7½									

SQUARE D A.C. MAGNETIC STARTERS

LINE VOLTAGE TYPE



Type DG-1
General Purpose
Enclosure



Type DD-1
Dust-Tight
Enclosure



Enclosure for Class II,
Groups E, F and G
Hazardous Locations



CLASS 8536

MELTING ALLOY OVERLOAD RELAYS

110-600 VOLTS — **25-60 CYCLES**

No. of Poles	NEMA Size	Ratings: Volts	Ratings: Max. H.P. Poly-phase	Ratings: Max. H.P. Single phase	General Purpose Enclosure NEMA Type I: Type	General Purpose Enclosure NEMA Type I: Price	Water-tight Enclosure NEMA Type IV: Type	Water-tight Enclosure NEMA Type IV: Price	Dust-tight Enclosure NEMA Type V: Type	Dust-tight Enclosure NEMA Type V: Price	For Hazardous Locations: Class II Groups E, F & G NEMA Type IX: Type	Class II Groups E, F & G NEMA Type IX: Price	Class I Group D NEMA Type VII: Type	Class I Group D NEMA Type VII: Price	Open Type: Type	Open Type: Price
2 Pole	0	115 230	....	1 1½	BG-1	$ 33.	BW-1	$ 68.	Use NEMA Type IV		BE-1	$ 68.	Use Size I		BO-1	$ 30.30
	1	115 230	....	1½ 3	CG-22	$ 38.50	CW-22	$ 74.	Use NEMA Type IV		CE-22	$ 74.	CR-22	$138.	CO-22	$ 35.80
	1½	115 230	....	3 5	CG-23	$ 49.50	CW-23	$ 88.	Use NEMA Type IV		CE-23	$ 88.	CR-23	$152.	CO-23	$ 46.80
3 Pole	0	110 208-220 440-550	1½ 2 2	....	BG-2	$ 38.50	BW-2	$ 74.	Use NEMA Type IV		BE-2	$ 74.	Use Size I		BO-2	$ 35.80
	1	110 208-220 440-550	3 5 7½	....	CG-24	$ 44.	CW-24	$ 80.	Use NEMA Type IV		CE-24	$ 80.	CR-24	$146.	CO-24	$ 41.30
	2	110 208-220 440-550	7½ 15 25	....	DG-1	$ 84.	DW-1	$156.	DD-1	$128.	DE-1	$190.	DR-1	$262.	DO-1	$ 74.
	3	110 208-220 440-550	15 30 50	....	EG-1	$138.	EW-1	$240.	ED-1	$190.	EE-1	$284.	ER-1	$372.	EO-1	$118.
	4	208-220 440-550	50 100	....	VG-18	$308.	VW-18	$482.	VD-18	$394.	VE-18	$556.	....	....	VO-18	$266.
	5	208-220 440-550	100 200	....	GG-22	$622.	GW-22	$822.	GD-22	$822.	GE-22	$958.	....	....	GO-22	$552.

SQUARE D STANDARD DUTY PUSH BUTTON STATIONS

CLASS 9001

Standard duty control stations are designed for use with magnetic motor starters to govern the starting, stopping, or reversing of all types of electric motors. Push buttons, either momentary contact or maintained contact, are assembled in various combinations to form unified control stations. Enclosures are furnished for surface or flush mounting.



Type B-30



Type BW-40

0-600 VOLTS A.C. AND D.C.† — **SURFACE MOUNTING**

No. of Units	Nameplate Markings	Features	General Purpose Enclosure NEMA Type I: Type	General Purpose Enclosure NEMA Type I: Price	Water-tight and Dust-tight Enclosure NEMA Types IV and V: Type	Water-tight and Dust-tight Enclosure NEMA Types IV and V: Price	For Hazardous Locations Class I, Group D or Class II, Groups E, F and G NEMA Types VII and IX: Type	For Hazardous Locations Class I, Group D or Class II, Groups E, F and G NEMA Types VII and IX: Price
								MOMENTARY CONTACT
1	Start		B-32	$ 5.50	BW-46	$19.30	BR-14	$24.80
	Stop		B-33	5.50	BW-47	19.30	BR-15	24.80
	Stop	Lockout	B-38	8.30	BW-48	22.	BR-16	27.50
2	Start—Stop		B-30	$ 5.50	BW-40	$19.30	BR-11	$30.30
	Start—Stop	Lockout on Stop	B-31	8.30	BW-41	22.	BR-13	33.
	Start—Stop	Lever Operated	....	.....	BW-49	19.30	....	.....
	Forward—Reverse		B-34	6.90	BW-42	19.30	....	.....
	Up—Down		B-35	6.90	BW-43	19.30	....	.....
	Open—Close		B-36	6.90	BW-44	19.30	....	.....
	On—Off		B-37	6.90	BW-45	19.30	....	.....
3	Start—Stop	110 or 220 V. pilot Light	B-39	$22.	....	.....	....	.....
	Forward—Reverse—Stop		RK-2A	16.50	....	.....	RM-1A	$58.
	Up—Down—Stop		RK-2B	16.50	....	.....	RM-1B	58.
	Open—Close—Stop		RK-2C	16.50	....	.....	RM-1C	58.
	High—Low—Stop		RK-2D	16.50	....	.....	FM-1	58.

†Types BR, RM and FM stations are limited to 250 volts D.C.

SQUARE D PRESSURE SWITCHES

Water Pump Control Type

Designed for the control of electrically driven water pumps, the 9013 Type AS, 9013 Type GS and 9044 devices cover the important electrical ratings for the direct control of motors in the usual water pump applications. Switches are of two pole construction to open both lines, considered desirable to avoid grounding difficulties often prevalent due to frequent damp location of equipment.

Class 9013 GSG and 9044 ESG devices are equipped with pulsation reducer plugs (.060) and 9013 ASG controls can also be so provided by adding the Form P designation to Type number.

The standard enclosure finish is of machine gray enamel. The special enclosures of 9013 ASW-2 and ASR-2 devices are of sheet steel and cast iron respectively to provide drip-proof and explosion resisting features where required. All interior parts are treated to prevent corrosion.

The switches listed below are horsepower rated. A table of these electrical ratings can be found at the bottom of this page.

Most of the controls listed below are carried in stock at various settings (see column headed "Standard Stock Settings" in the tables below).



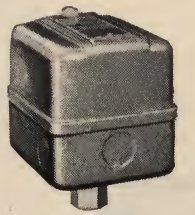
9013 ASG-2

CLASS 9013

DEEP WELL PUMPS

HEAVY DUTY — **CONTACTS OPEN ON INCREASED PRESSURE**

Type	Enclosure	* Poles	◐ Connection I.P.T.	Pressure Limits (P.S.I.)	† Differential (P.S.I.)	Dimensions (Approx.)	Net Weight	Standard Stock Settings (P.S.I. On & Off)	List Price
ASG-2	General Purpose	2	¼"	250#	10-50#	3¾ x5⅜ x6¾	4¾ Lbs.	20-40# 80-100#	$22.10
ASW-2	Drip Proof	2	¼"	250#	10-50#	8 11/16 x6 3/16 x6	8½ Lbs.	....	59.40
ASR-2	Explosion Resisting	2	¼"	250#	10-50#	9 15/16 x9 x7 13/16	23 Lbs.	....	118.



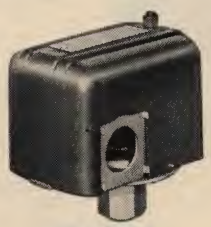
9013 GSG-2

CLASS 9013

SHALLOW AND DEEP WELL

INTERMEDIATE DUTY — **CONTACTS OPEN ON INCREASED PRESSURE**

Type	Enclosure	Poles	◐ Connection I.P.T.	Pressure Limits (P.S.I.)	† Differential (P.S.I.)	Dimensions (Approx.)	Net Weight	Standard Stock Settings (P.S.I. On & Off)	List Price
GSG-2	General Purpose	2	¼"	80#	12-35#	3 1/16 x3⅞ x5 7/32	2 Lbs.	20-40#	$15.



9044 ESG-2

CLASS 9044

HOME WATER SYSTEMS

DOMESTIC DUTY — **CONTACTS OPEN ON INCREASED PRESSURE**

Type	Enclosure	Poles	◐ Connection I.P.T.	Pressure Limits (P.S.I.)	† Differential (P.S.I.)	Dimensions (Approx.)	Net Weight	Standard Stock Settings (P.S.I. On & Off)	List Price
ESG-2	General Purpose	2	¼"	80#	15-40#	2 11/16 x3 11/16 x3⅞	1⅛ Lbs.	20-40#	$9.75

AIR COMPRESSOR SWITCHES

CLASS 9013

Direct control of air compressor motors is common within the limits of the electrical ratings of the switches listed. Switches shown are provided with two way release valves, but are available without valve (omit Form suffix X).

The standard enclosure finish is of machine gray enamel. The special enclosures of 9013ASW-2 and ASR-2 devices are of sheet steel and cast iron respectively to provide drip-proof and explosion resisting features where required. Interior parts are treated to prevent corrosion.

HEAVY DUTY

WITH 2-WAY RELEASE VALVE ‡ — **CONTACTS OPEN ON INCREASED PRESSURE**

Type	Enclosure	* Poles	◐ Connection I.P.T.	Pressure Limit (P.S.I.)	† Differential (P.S.I.)	Dimensions (Approx.)	Net Weight	Std. Stock Settings (P.S.I. On & Off)	List Price
ASG-2 Form F X	General Purpose	2	¼"	250	10-50#	3¾ x5⅜ x6¾	5 Lbs.	....	$27.80
ASW-2 Form X	Drip Proof	2	¼"	250	10-50#	8 11/16 x6 3/16 x6	8½ Lbs.	....	$71.70
ASR-2 Form X	Explosion Resisting	2	¼"	250	10-50#	9 15/16 x9 x7 13/16	23 Lbs.	....	$133.70



9013-ASG-2 Form FX

*9013 Type AS switches available also in three pole form.

◐Suffix 2 in type designation indicates ¼" tap, listed and considered standard. ⅛" or ⅜" taps available, suffix endings 1 or 3 respectively.

† Differential increases with range — full range and differential not possible with a given spring combination (except 9013 Type GHG). Larger flanges available for greater sensitivity on AS types.

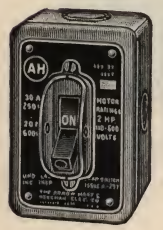
‡Switches are available with or without release valve. Three way valve obtainable on 9013 Type AS controls (Form Y).

ARROW-HART & HEGEMAN MOTOR CONTROLS

ENCLOSURE TYPES

Add E for Explosion-proof
Add W for Weatherproof
Add U to Omit Enclosure

Manual Starters without Overload Protection



6808

SINGLE PHASE—2 POLE

No.	H.P.	Volts Max.	List Price Each
6808	2	600	$4.30
6808-E	2	600	20.50
6808-U	2	600	3.70
6808-W	2	600	20.50

THREE PHASE

7810	2	600	$10.60
7810-E	2	600	26.70
7810-U	2	600	9.50
7810-W	2	600	26.70



28211

SINGLE PHASE ONLY

No.	Pole	H.P.	Volts Max.	List Price Each
28210	Single	1	220	$6.90
28210-E	Single	1	220	23.10
28210-U	Single	1	220	5.80
28210-W	Single	1	220	23.10
28211	Double	1	220	7.70
28211-E	Double	1	220	23.90
28211-U	Double	1	220	6.60
28211-W	Double	1	220	23.90

H.P. Ratings A.C.

Volts	110	220	440
Single phase	1	1½	1½
Polyphase	1½	2	2



1391

No.	Size	Pole	List Price Each
1390	0	2	$19.80
1390-U	0	2	18.20
1390-W	0	2	51.70
1391	0	3	22.00
1391-U	0	3	20.40
1391-W	0	3	53.90

H.P. Ratings A.C.

Volts	110	220	440
Single phase	1½	3	5
Polyphase	3	5	7½

No.	Size	Pole	List Price Each
1392	1	2	$25.30
1392-U	1	2	23.10
1392-W	1	2	64.00
1393	1	3	27.50
1393-U	1	3	25.30
1393-W	1	3	66.00

TYPE "RT"—LIST PRICE EACH $1.70

No.	Motor Cur. Amps. Min.	Max.	No.	Min.	Max.	No.	Min.	Max.
42000	.6	.68	42008	2.15	2.45	42016	8.1	9
42001	.72	.82	42009	2.51	2.86	42017	9.1	10
42002	.92	1	42010	3.2	3.64	42018	10.1	11
42003	1.01	1.1	42011	4.0	4.4	42019	11.1	12
42004	1.11	1.25	42012	4.5	5	42020	12.1	12.7
42005	1.26	1.41	42013	5.2	5.9	42021	13.2	15
42006	1.6	1.82	42014	6.4	7.2	42022	15.2	17.3
42007	1.88	2.1	42015	7.3	8	42023	18.4	21

PUSH BUTTONS—STANDARD DUTY


27900-S


27907-S


27911-S


28308

ONE UNIT

No.	Circuit	Indication	List Price Each
27900-S	Open	Start	$5.50
27900-E	Open	Start	24.80
27900-U	Open	Start	....
27900-W	Open	Start	....
27903-S	Closed	Stop	5.50
27903-E	Closed	Stop	24.80
27903-U	Closed	Stop	....
27903-W	Closed	Stop	....
27904-S	Pilot (Neon)	Spec.	8.30
27904-E	Pilot (Neon)	Spec.	27.05
27904-U	Pilot (Neon)	Spec	5.50
27904-W	Pilot (Neon)	Spec.	22.00

TWO UNITS

1615-A	Open	Start	$5.50
1615-S	Open	Start	5.50
27907-S	Closed	Stop	5.50
27907-E	Closed	Stop	30.00
27907-U	Closed	Stop	3.90
27907-W	Closed	Stop	19.30
27909-S	Open	Forward	
	Open	Reverse	6.09
27909-E	Open	Forward	
	Open	Reverse	30.30
27909-U	Open	Forward	
	Open	Reverse	4.20
27909-W	Open	Forward	
	Open	Reverse	20.70
27919-S	Pilot (Neon)	Spec.	
	Open	Start	15.20
27919-E	Pilot (Neon)	Spec.	
		Start	51.75
27919-U	Pilot (Neon)	Spec.	
		Start	8.90
27919-W	Pilot (Neon)	Spec.	
		Start	28.90

THREE UNITS

27916-S	Open	Forward	
	Open	Reverse	
	Closed	Stop	$16.50
27916-E	Open	Forward	
	Open	Reverse	
	Closed	Stop	55.00
27916-U	Open	Forward	
	Open	Reverse	
	Closed	Stop	8.30
27916-W	Open	Forward	
	Open	Reverse	
	Closed	Stop	30.30
27915-S	Open-Closed	Start	
	Closed	Stop	
	3-Positions	For., Off, Rev.	19.30
27915-E	Open-Closed	Start	
	Closed	Stop	
	3-Positions	For., Off, Rev.	57.00
27915-U	Open-Closed	Start	
	Closed	Stop	
	3-Positions	For., Off, Rev.	9.70
27915-W	Open-Closed	Start	
	Closed	Stop	
	3-Positions	For., Off, Rev.	33.00
27911-S	Pilot (Neon)	Special	
	Open	Start	
	Closed	Stop	22.00
27911-E	Pilot (Neon)	Special	
	Open	Start	
	Closed	Stop	57.50
27911-U	Pilot (Neon)	Special	
	Open	Start	
	Closed	Stop	10.30
27911-W	Pilot (Neon)	Special	
	Open	Start	
	Closed	Stop	35.80

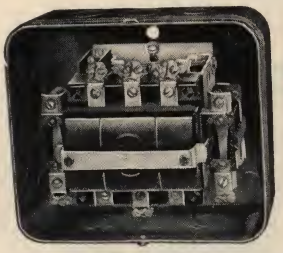
The above units are available in heavy duty and oil tight types. Other variations are available at your request.

MIDGET RELAYS

10 Amps., 550 V.; A.C.

No.	Poles	Circuit	List Price Each
28300	1	Open	
		Closed	
		Open & Closed	$8.30
28300U	1	Open	
		Closed	
		Open & Closed	6.90
28302	1	Open	
		Closed	
		Open & Closed	8.30
28302-U	1	Open	
		Closed	
		Open & Closed	6.90
28304	1	Open	
		Closed	
		Open & Closed	9.70
28304-U	1	Open	
		Closed	
		Open & Closed	8.30
28306	2	Open	
		Closed	
		Open & Closed	$12.40
28306-U	2	Open	
		Closed	
		Open & Closed	9.70
28307	2	Open	
		Closed	
		Open & Closed	14.10
28307-U	2	Open	
		Closed	
		Open & Closed	11.30
28308	2	Open	
		Closed	
		Open & Closed	14.40
28308-U	2	Open	
		Closed	
		Open & Closed	11.70

ARROW — HART & HEGEMAN MOTOR CONTROLS



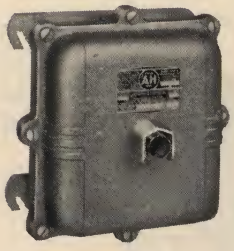
OPEN 38521-U



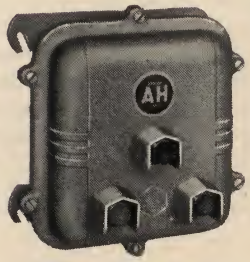
NEMA I 37644



NEMA IV 38538W



NEMA VII 38555-E



NEMA IX 38538ED

TYPE "RA" MAGNETIC STARTERS

ENCLOSURE TYPES:
Add E for NEMA VII, Add U to Omit Enclosure
Add ED for NEMA IX, Add W for NEMA IV

Type	No.	H.P.	Volts	Phase	Poles	General Purpose NEMA I	—U Open	—W Weather Proof NEMA IV	—ED Explo. Dust NEMA IX	—E Explo. Gas NEMA VII
SIZE 0	38520	1-1½	100/220*							USE
RA-021	38523	1½	440	1	2	$33.00	$30.30	$68.00	$68.00	SIZE I
	38526	1½	550							
	38518	1½	110							
RA-032	38521	2	220	3	3	38.50	35.80	74.00	74.00	USE SIZE I
	38524	2	440							
	38527	2	550							
	38519	1½	110							
	38522	2	220	2	4	46.80	44.00	86.00	86.00	USE
RA-042	38525	2	440	4W						SIZE I
	38528	2	550							
SIZE 1	38554	1½-3	110/220*							
RA-121	38557	5	440	1	2	38.50	35.80	74.00	74.00	138.00
	38560	5	550							
	38552	3	110							
RA-132	38555	5	220	3	3	44.00	41.30	80.00	80.00	146.00
	38558	7½	440							
	38561	7½	550							
	38553	3	110							
	38556	5	220	2	4	52.30	49.50	90.00	90.00	154.00
RA-142	38559	7½	440	4W						
	38562	7½	550							
SIZE 2	37642	3	110							
RA-221	37648	7½	220	1	2	78.00	68.00	150.00	184.00	256.00
	37654	10	440							
	37660	10	550							
	37640	7½	110							
RA-232	37644	15	220	3	3	84.00	74.00	156.00	190.00	262.00
	37650	25	440							
	37656	25	550							
	37662	7½	110							
RA-242	37664	15	220	2	4	100.00	90.00	204.00	238.00	306.00
	37666	25	440	4W						
	37668	25	550							
SIZE 3	38640	15	110							
RA-332	38644	30	220	3	3	138.00	118.00	240.00	284.00	372.00
	38650	50	440							
	38656	50	550							
	38662	15	110							
	38664	30	220	2						
RA-342	38666	50	440	4W	4	168.00	150.00	298.00	342.00	446.00
	38668	50	550							
SIZE 4	40500	25	110							
RA-432	40544	50	220	3	3	308.00	266.00	482.00	556.00	608.00
	40550	100	440							
	40556	100	550							

*Three Lead 110/220 Volt Coil.

"RA" HEATERS

For Use with 40° C. Motors at 68°-85° Ambient
List Price Each $1.70

Heater Number	Motor Current Amps. Min.	Max.	Heater Number	Motor Current Amps. Min.	Max.	Heater Number	Motor Current Amps. Min.	Max.	Heater Number	Motor Current Amps. Min.	Max.
42000AA	.24	.27	42005	1.28	1.45	42012	4.6	5.1	42019	10.1	11.0
42000A	.4	.5	42006	1.6	1.82	42013	5.5	6.2	42020	11.1	12.2
42000	.57	.65	42007	1.92	2.15	42014	6.4	7.0	42021	12.4	14.0
42001	.72	.82	42008	2.15	2.46	42015	7.1	7.8	42022	15.2	17.0
42002	.85	.97	42009	2.51	2.86	42016	8.0	8.8	42225	17.6	19.0
42003	1.00	1.10	42010	3.2	3.64	42017	8.9	9.5	42226	20.0	22.0
42004	1.12	1.27	42011	4.0	4.5	42018	9.6	10.0	42227	22.4	25.0
42015	7.4	8.3	42020	12.5	14.0	42226	22.4	25.0	42231	38.4	42.0
42016	8.5	9.6	42021	14.3	15.0	42227	26.1	29.0	42232	42.1	46.0
42017	9.8	10.8	42224	15.1	17.5	42228	29.1	32.1	42233	46.1	50.0
42018	11.0	11.8	42022	17.6	19.5	42229	32.2	36.1			
42019	11.9	12.4	42225	20.0	22.3	42230	36.8	37.5			
42324	26.5	29.5	42328	41	44	42332	56	60	42336	76	80
42325	29.6	32	42329	45	47	42333	61	63			
42326	33	36	42330	48	50	42334	64	70			
42327	37	40	42331	51	55	42335	71	75			
42362	37	41	42367	60	67	42371	87	95	42379	124	135
42363	43.2	46	42368	68	71	42372	96	103	42380	136	154
42364	47	52.7	42369	72	77	42377	104	115	42381	155	175
42365	53.6	59	42370	78	86	42378	116	123			

"RA" ADDITIONS—SPECIALS

		Suffix Letter	Sizes 0-1½	— List Price Each — Size 2	Size 3	Size 4
Local Control Start-Stop	NEMA I	B	$ 5.50	$11.00	$16.50	$16.50
	NEMA IV & V	B	19.80	22.00	22.00	22.00
	NEMA VII & IX	B	30.80	33.00	33.00	33.00

METERS AND TESTERS

SIMPSON METERS



260

No. 260—Volt-Ohm Milliameter, high sensitivity for radio and TV testing. Complete with test leads and operator's manual. List price, each.....$77.90

No. 240—For radio testing. List price, each 52.50

No.	Description	List Price Each
370	A.C. Ammeter, 60 cycles, 0-25 Amps.	$39.90
371	A.C. Voltmeter, 0-600 V.....	36.80
372	Ohmmeter, 0-500,000 Ohms.....	51.00
	Test leads with prod for 370 and 371	2.50
	Test leads with alligator clips...	2.50



370



AMPROBES
VOLT-AMMETERS
SNAP-AROUND, POCKET SIZE

Position of conductor does not affect accuracy. Doughnut-type transformer eliminates error due to position of connector within probe jaws. Covers 9 ranges—6 Ammeter, 3 Voltmeter. New automatic-safety test leads. Snap-out sleeve automatically insulates plug. Probe jaws completely insulated—right down to the sockets. High-visibility window. No rim window floods scale with unobstructed light. Pocket size, belt mounting—carried in the pocket, brief case, or on the belt.

No.	Description	List Price Each
Model 600	6 Ammeter ranges: 0-15/30/60/150/300/600 Amps. AC. 3 Voltmeter ranges: 0-150/300/-600 volts AC.....	$59.50
Model 1200	6 Ammeter ranges: 0-15/30/60/150/300/600 Amps. AC. 3 Voltmeter ranges: 0-150/300/-600 volts AC.....	67.50

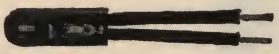


23

STERLING
POCKET METERS

		List Price Each
	Ammeters	
No. 23	for photo-flash batteries. 0-20 amp. scale, ½ amp. div.....	$2.50
No. 24	for testing No. 6 cells. 0-35 amp. scale, 1 amp. div.....	2.25
No. 24A	for testing dry cells including the heavy-duty Ignition type of cell. 0-50 amp. scale, 1 amp. div.....	2.50
	Voltmeters	
No. 33	for ordinary single cells and "Flashlight" cells, 0-3 v. scale 1/10 v. div.	2.30
No. 34	for "Hot Shot" and Radio batteries. 0-10 volt scale, 1/5 volt. div.	2.30
No. 34A	for 12 volt batteries. 0-16 volt scale, ½ volt div.....	2.50
No. 34B	for ordinary 22½ v. radio "B" batteries. 0-30 v. scale, 1 v. div.	2.50
No. 34C	for testing ordinary 45 v. radio "B" batteries. 0-50 v. scale, 1 v. div.	3.00
	Voltammeters	
No. 44	for "Hot Shot" and Radio batteries and No. 6 cells, 0-35 amp. scale, 1 amp. div.; 0-10 volt scale, 1/5 volt div.	2.75
No. 44A	for 12 volt batteries and No. 6 cells. 0-35 amp. scale, 1 amp. div.; 0-16 volt scale, ½ volt div.	3.00
No. 45	for testing No. 6 dry cells and ordinary 45 volt radio "B" batteries. 0-35 amp. scale, 1 amp. div.; 0-50 volt scale; 1 volt div.....	4.00
No. 45A	for testing dry cells including the heavy-duty Ignition type and ordinary 45 v. radio "B" batteries. 0-50 amp. scale, 1 amp. div.; 0-50 v. scale, 1 v. div.	4.25

BRACH TEST-O-LIGHT



Brach Test-O-Lite (100-550 V A.C. or D.C.) List Price, Each $1.25

IDEAL TEST-GLO



Tests motors, fuses, spark plugs, electrical and radio circuits from 80 to 550 volts, A.C. Neon test lamp is fully enclosed in transparent housing. "Test-Glo" is self-contained in neat, streamlined black tube, complete with pocket clip. Test lead tips are fully insulated. A modern safety tool that every electrician, radio repair man, mechanic and maintenance man should have. Length of leads 4¾", overall length 7¼".

No. 35-001-Test Glo—List price, each..... $2.20

IDEAL FLUR-TEST FLUORESCENT FIXTURE TESTOR



61-011 Flur-Test

Pocket-size tester quickly locates the trouble and indicates whether it is in the circuit, starter or the tube. It saves time of trial-and-error methods of replacing starters and tubes. If the fixture circuit is dead, you will know it immediately.

When you test with Flur-Test, you know definitely that a discarded tube or starter you throw away is bad. Bench testing of tubes and starters after a round of fixture maintenance is entirely eliminated. Plugs into starter socket to make all three tests.

To test fixtures having starters behind tube, Flur-Test adapters are available.



61-012 Adapter

No.	Description	List Price Each
No. 61-011	Flur-Test (15-40 watt)	$21.80
No. 61-012	Flur-Test Adapter for above.....	19.80

FLUR-TEST FLUORESCENT FIXTURE

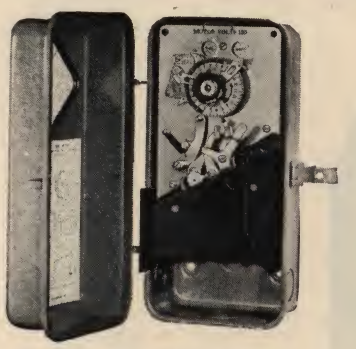


For all around electrical testing. Tests continuity of circuits, 110 to 600 volts AC/DC, blown fuses, grounded side of line, grounded side of motor or appliance, excessive leakage to ground, frequency (25 or 60 cy.), DC polarity. It incorporates both a solenoid voltage indicator and a neon test lamp. Test prods and leads insulated for maximum protection. A protecting flange stops the fingers from slipping off and touching the prods. Calibration from 110 to 600 volts. Length 6 inches; leads are 2 feet long. Test prod handles 4 inches long; test prods 2 inches long.

No. 61-001	Tester with case.....	$21.80
No. 61-003	Tester without case.....	19.80

SANGAMO TIME SWITCHES

HEAVY DUTY—WALL MOUNTING



Type W Synch-Carryover

Provide carryover operation during power interrruptions. Combines synchronous timing with reserve mainspring operation, providing accurate timing during power outages up to 10 hours duration, which practically eliminates resetting the time dial. Automatic thermal blocking device shifts operation from synchronous motor to escapement-controlled mainspring. When power is restored, synchronous operation is resumed and reserve spring rewound.

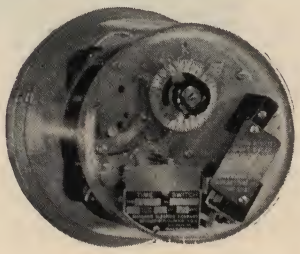
Pressed steel case; sealable hasp; gray enamel; gasket-sealed against dust; 4 multiple knockouts. Dimensions: height 10¼ in., width 5¼ in., depth 4 in.

Type	Poles	Throw	List Price Each	UL
W-11	Single	Single	$50.00*	Yes
W-21	Double	Single	52.90*	Yes
W-31	Triple	Single	56.90*	No
W-12	Single	Double	52.90*	Yes
W-22	Double	Double	55.70*	No
W-32	Triple	Double	59.20*	No
WY-11	Two-Circuit		60.30*	Yes

*Standard motor: (Specify) 120 or 240 volt, 60 cycle. Special motors: 25 or 50 cycle, add $1.00; 24 volt (60 cycle), add $1.00; 480 volt (60 cycle) on 11, 12, 21 types, add $6.50.

SYNCHRONOUS-CARRYOVER TIME SWITCH

(SOCKET MOUNTING)



TYPE WS
Synchronous-Carryover

Minimum ON period 30 minutes, minimum OFF period 90 minutes. Two pairs of trippers furnished; two extra pair can be ordered. Cover has sealable opening for setting time dial. Electrically-wound reserve mainspring with escapement maintains accuracy in case synchronous operation is interrupted by power supply outage.

Type	Spec. Number	Poles	Throw	AC Amp. Per Cir.	Volts	List Price Each
WS-11	41833	Single	Single	35	240*	$55.28
WS-21	41295	Double	Single	35	240*	58.40
WS-12	41834	Single	Double	35	240*	58.40

*240 volt motor standard; 120 volt motor when specified.

SANGAMO WATTHOUR METER-TIME SWITCH COMBINATION



Type JMA-11
3-Wire

For 240 volt, 3-wire, single phase circuits. Single pole, single throw.
One "ON" and one "OFF" daily operations standard.
Two additional sets of ON and OFF tripping levers, when specified, at no extra charge. For additional sets levers, write for replacement parts list. Contacts rated at 30 amperes.

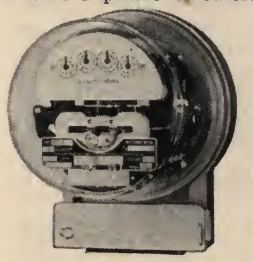


Type JMS-11
3-Wire

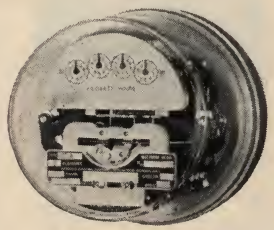
Type	Spec. Number	Amp.	Volts	Register Dials	Register Multiplier	List Price Each
JMA-11	41363	15	240	4	1	$59.32
JMA-11	41685	50	240	4	1	70.10
PMS-11	41364	15	240	4	1	59.32
JMS-11	41687	50	240	4	1	70.10

SANGAMO POLYPHASE WATTHOUR METERS

2 ELEMENT FOR 3-WIRE SERVICE FROM 4-WIRE 3 PHASE Y CIRCUIT. Also applicable to 3-wire single phase and 3-wire 3 phase circuits.



Type LC-2-A

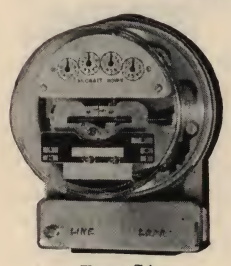


Type LC-2-5

Type	Spec. Number	Amp.	Volts	Register Dials	Register Multiplier	List Price Each
LC-2-A	35529	15	120	4	1	$58.54
LC-2-A	39367	50	120	4†‡	1†‡	79.38
LC-2-A	37423	15	240	4†‡	1†‡	62.78
LC-2-A	35531	50	240	4‡	10‡	83.62
LC-2-5	36003	15	120	4	1	58.54
LC-2-5	40790	50	120	4†‡	1†‡	79.38
LC-2-5	37622	15	240	4†‡	1†‡	62.78
LC-2-5	37272	50	240	4‡	10‡	83.62

†4 circle register with multiplier of 10, when specified, at no extra charge.
‡5 circle direct reading register, when specified, at no extra charge.
Potential indicating lamps, when specified, add $2.12 list.
480 and 600 volt meters, when specified, add $13.40 list to 240 volt meter prices.

SANGAMO WATTHOUR METERS



Type JA
3-Wire

Single Elements for 3-Wire Single Phase Circuits



Type JS
3-Wire

Type	Spec. Number	Amp.	Volts	Register Dials	Register Multiplier	List Price Each
JA	34672	15	240	4	1	$25.26
JA	39534	50	240	4†‡	1†‡	35.28
15 ampere, 240 volt, 3-2 wire, list $25.68, specification number 35113.*						
JS	34676	15	240	4	1	25.26
JS	39950	50	240	4†‡	1†‡	35.28
15 ampere, 240 volt, 3-2 wire, list $25.68, specification number 35113.*						

*A 15 ampere, 240 volt, 3-wire meter connected for 15 ampere, 120 volt, 2-wire service. Includes parts for reconverting to 3-wire use.
†4 circle register with multiplier of 10, when specified, at no extra charge.
‡5 circle direct reading register, when specified, at no extra charge.
6 terminal base (separate potential terminals), when specified, no extra charge.
Cyclometer registers, when specified, add $0.90 list.

MURRAY MAGNETIC BREAKER SERVICE CONTROL EQUIPMENT

CIRCUIT BREAKER SERVICE CONTROL

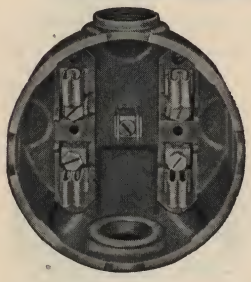


LR235B

Outdoor seamless box rain-tight and rust-resistant. One-piece drawn top and hub, deep-drawn box and cover—insuring long life protection against the elements. Supplied with two breaker switches. Latch for sealing the wire compartment. Auxiliary cover may also be locked over the breaker with seal or padlock. Seamless box —one piece corrosion-resistant steel. Deep-lipped cover slides under the top flange and over the box sides for snug, rain-tight fit. Finish —weatherproof, baked-on melamine fish. Dimensions: 9¾" long, 5 1/16" wide, 4⅛" deep.

No.	ENCLOSURE	List Price Each
LR235B	Two 35 Amp. circuit breakers	$19.45
LR250B	Two 50 Amp. circuit breakers	19.45
LR270A	Two 75 Amp. circuit breakers	29.00
	CIRCUIT BREAKERS	
BA351D	35 Amp. single pole 125 Volt A.C.	$4.05
BA501D	50 Amp. single pole 125 Volt A.C.	4.05
BC701D	70 Amp. single pole 125 Volt A.C.	12.00

WEATHERPROOF—RAIN-TIGHT METER SOCKET



Socket and hub made of steel and weatherproof zinc coating and baked-on melamie finish. Sockets and flange drawn from one piece of steel. Breathers weepers (4) provided in flanged surface to permit circulation of air. Hubs joined to socket—rugged and rain-tight. Solderless terminals take-up to No. 1 wire. Grounded neutral connector to accommodate three wires in all sockets.
Sockets with hubs and 1" knockout in back.

No.	Hubs.	Wgt. Each	Std. Pkg.	List Price Per 100
SA105A	2-1"	3½ lbs.	5	$5.25
SA106A	2-1¼"	3½ lbs.	5	5.25
SA109A	3-1"	3¾ lbs.	5	6.65
SA110A	3-1¼"	3¾ lbs.	5	6.65

ALL-SERVICE METER CONNECTION BOX

FOR BOTTOM-CONNECTED TYPE "A" METERS



MA010A

Suitable for outdoor or indoor use. Box and cover are rain-tight construction. Hinged sealing cover requires but one seal; cover has standard depression to fit company name plate.
Box, cover with rubber meter terminal gasket, meterboard, porcelain or bakelite meter connection block, formed copper connection and test fittings (4), grounding stud with 3 cup washers and nut, top screw and two stainless steel screws for mounting meter, and two cover screws.

No.	Description	List Price Each
MA010A	As above—porcelain block	$8.80
MA110A	As above—bakelite block	8.80
MX007M	Closure plate for blanking off meter opening	.45

Specify if box and cover are required in rust-inhibited steel or drawn sheet aluminum.

ALL-SERVICE METER CONNECTION BOX

FOR BOTTOM-CONNECTED TYPE "A" METERS



MB320A

Cabinet construction similar to MA010A except that compartment is larger, measuring 8" long, 8" wide and 4¼" deep. Provides ample wiring room suitable for group installations —multiple knockouts take from 1½" to 2" conduit inclusive.
Box, cover with rubber meter terminal gasket, meterboard, porcelain meter test block with four nut-type disconnects, two 100 ampere 2-strap test blocks and four No. 4 solid copper loops, three terminal neutral strap, adjustable stud and two steel screws for mounting meter, and two cover screws.

No. MB320A—List price **$19.35**

Specify if box and cover are required in rust-inhibited steel or drawn sheet aluminum.

INDOOR ENCLOSED METER CONNECTION TEST BLOCKS

In sealable cabinets.
Cover embossed.
"There are no fuses in this cabinet."
Finish baked-on melamine.



MC224B

No.	Amps.	Volts A.C.	Wire	Neutral	Disconnects	Wt.	Std. Pkg.	List Price Ea.
For Single-Phase, 2- or 3-Wire, or 3-Phase, 3-Wire Installations								
MC224B	60	125-250	3	Grounded	4 Nut Type	7	5	$ 9.10
MC324B	100	125-250	3	Grounded	4 Nut Type	15	2	19.35
MC384A	100	575	3	Insu. (Groundable)	4 Nut Type	15	2	24.95
MC224BJ	60	125-250	3	Insu. (Groundable)	4 Links	12	3	12.10
MC324A	100	125-250	3	Insu. (Groundable)	4 Links	20	2	19.35
MC524A	100	125-250	3	Insu. (Groundable)	4 Links	25	1	36.00
For Polyphase, 3-Phase, 4-Wire Installations								
MC276A	60	230	4	Insu. (Groundable)	6 Nut Type	15	3	23.00
MC376A	100	230	4	Insu. (Groundable)	6 Nut Type	19	2	24.80
MC398A	100	575	4	Insu. (Groundable)	6 Nut Type	19	2	36.00
MC258A	60	115-230	4	Insu. (Groundable)	6 Links	12	3	23.00
MC356A	100	115-230	4	Insu. (Groundable)	6 Links	20	2	24.80
MC556A	100	115-230	4	Insu. (Groundable)	6 Links	26	1	39.00

Bottom End	Right and Left Side	Rear Wall
	No. 961	
1—1½	2— ¾-1½	1— ¾-1½
1— ½-1¼		
1— ½		
	No. 908	
1—1-2	1—1¼, 1½	2—1¼, 1½
2— ½	1—1-2	
	Nos. 907, 909	
1—1-2	1—1-2	1— ¾-1½
1— ½	1— ¾-1½	
	1— ½	
	No. 942	
2—1¼	1—1¼	4—1¼
1—1	1—1	
1— ½		
1— ¼ Grd.		

Bottom End	Right and Left Side	Rear Wall
	No. 941	
2—1½	2—1½	2—1½
1—1¼	1—1	2—1¼
1—1		
1— ½		
1— ¼ Grd.		
	Nos. 960, 962	
1—1-2	1—1-2	2— ¾-1½
2— ½	1— ½	
	Nos. 910, 912, 920, 922	
2—1¼-2½	2—1¼-2½	2—1¼-2½
1— ½-1¼		



HOFFMAN WIRE TROUGHS

Provides mechanical protection for underground cable at the post. Made of 14 gauge hot dipped galvanized steel. Fits snugly into the bottom of the S-85 box. The bottom of the trough is rolled over to prevent abrasion of cable insulation.

No.	Size	Adj.	Wgt.	List Price Each
54	1½"x2½"x4'	2' to 4'	7 lbs.	$5.00
56	1½"x2½"x6'	3' to 4'	11 lbs.	6.00

For price Junction Box refer to Model S-85.

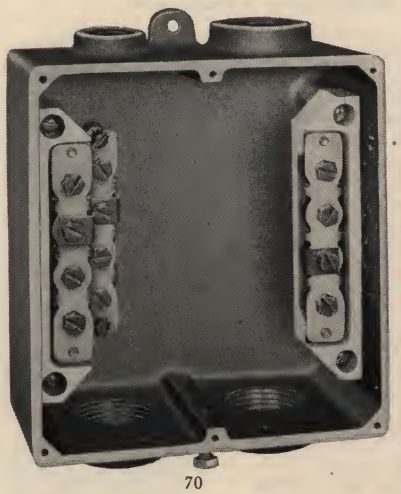
HOFFMAN WATERPROOF OUTLET BOX



Formed corners, cable slotted, completely waterproof even when in use. Installation, quick-easy with the "wrap-around" mounting brackets. Grounding contacts provided for heavy-duty caps with grounding prongs. Brackets mounted for convenient wiring, solderless terminals. Bonderized, baked enamel gray finish.

Model 34—Fused outlet with grounded type duplex receptacle. 115 Volt-15 Amp. ¾" hub on top, ¾" knockout on bottom.
Model 34—Outlet box. List price each..... **$8.60**
Model 30—The same weatherproof box as the Model 34 furnished with a dead front punched to permit the mounting of any duplex receptacle.
Model 30—Weatherproof box only. List price each..... **4.50**
Model 33—The same as Model 34 except a standard duplex receptacle is furnished instead of the grounded type.
Model 33—Outlet box with fused outlet. List price each.... **6.80**
Model 35—The same as model 34 only a weather box with toggle-switch receptacle and fuse holder.
Model 35—Outlet box. List price each..... **7.50**
Model 36—The same as Model 34 only a weather box with duplex receptacle and plug fuse holder.
Model 36—Outlet box. List price each..... **6.80**
Model 31—Weatherproof box with double duplex receptacle. List price each **7.50**

HOFFMAN JUNCTION BOXES



70

100 AMPS. CAPACITY

Specially designed Junction Boxes for use with underground cable. Saves time and labor. No splicing or special connectors necessary. For low cost service entrance, building entrance, and building to building wiring.

Each bus bar accommodates four No. 2 or eight No. 6 or a larger number of smaller wires.
All aluminum junction box cases are made of corrosion resisting cast aluminum and are furnished with weather-tight gasketed cast aluminum covers. Hubs are of solid cast aluminum integral with the case and are taper pipe-tapped for conduit of the sizes listed above. Each bus bar provides a means for making connections which is neat, secure, and convenient. The "hot" bus bars are supported by insulating panel bars of approved ceramic material and are of ample strength and proportion. The neutral bus bar is grounded to the box.

CAST ALUMINUM

No.	Lgth.	Width	Depth	Top Hubs	Bottom Hubs	With Bus Bars	List Price Each
A-50	8⅝"	7⅝"	4⅛"	1-1¼"	2-1¼" 1-1" 1-½"	Yes	$23.00
NC-60	8⅝"	7⅝"	4⅛"	1-1¼"	2-1¼" 1-1" 1-½"	No	18.40
A-70	7⅛"	6¾"	3½"	1-1¼" 1-¾"	2-1¼"	Yes	14.85
NC-80	7⅛"	6¾"	3½"	1-1¼" 1-¾"	2-1¼"	No	11.25
A-72	7⅛"	6¾"	3½"	1-1¼" 1-¾"	1-2"	Yes	14.85
A-90	5¾"	6¼"	2¾"	1-1"	2-1"	Yes	12.00
NC-100	5¾"	6¼"	2¾"	1-1"	2-1"	No	8.85

STEEL

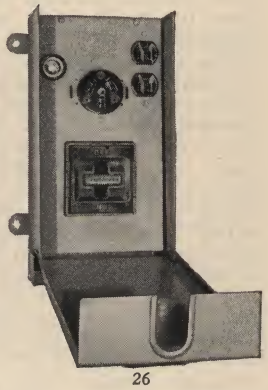
S-75	7¼"	6¾"	3½"	1-1¼" 1-¾"	2-1¼"	Yes	$10.00
SNC-77	7¼"	6¾"	3½"	1-1¼" 1-¾"	2-1¼"	No	5.25
S-85	7¼"	6¾"	3½"	1-1¼" 1-¾"	Fits Wire Trough	Yes	10.00
S-95	5½"	6"	3¼"	1-1¼"	2-1¼"	Yes	7.50
SNC-97	5½"	6"	3¼"	1-1¼"	2-1¼"	No	4.20

HOFFMAN POWER OUTLET



22

Weatherproof steel box with bonderized baked enamel grey finish. Bracket mounted for convenient wiring, having solderless fittings. 230 Volts-50 Amp., 1¼" hub on top, 1" knockout on bottom.



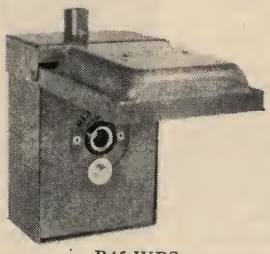
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List Price Each

No. 22—50 Amp. power outlet **$10.40**
No. 25—50 Amp. power outlet with 60 Amp. fuse pullout.. **15.00**
No. 26—50 Amp power outlet; 115 V. fused duplex receptacle with 60 Amp. fuse pullout..... **18.00**

REMOTROL

Approved by Underwriters' Laboratories



R45-WPS
Outdoor Use

Application



R-45
Interior

Remotrols can be used wherever it is desired to control lights, small motors, machines, etc., from any number of remote points. It is only necessary to run one switch wire, thus saving on time and material. No current is consumed by the unit except when momentarily energizing relay for "on" or "off" position.

Model R45-WP for Outdoor Use

Weatherproof enclosure of heavy gauge rustproof metal for pole or wall mounting. Dead front type with removable interior and solderless lugs on the terminal strip to simplify wiring. Box equipped with conduit hub in top and two ½" KOs in bottom. 10 Amp. 120 Volts A.C.

Model R45-WPS

Same as R45-WP with the exception that this model has a switch built into the interior and connected so that the unit can be switched on and off at the control box.

Model R45-24

This model is equipped with a 24 volt transformer for use in industrial plants and is so designed that the switching of control is done with low voltage thus eliminating use of conduit and expensive materials as in higher voltage installations. 10 Amp. 120 Volts A.C.

Model	Description	List Price Each
R45-WP	Complete with two No. RS-3 switches	**$18.00**
R45-WP-S	Complete with two No. RS-3 switches	**19.50**
R45-WP-N	Complete with two No. RS-3 switches (neutral switching)	**18.00**
R45-WP-SN	Complete with two No. RS-3 switches (neutral switching)	**19.50**
R45-24	Complete less switches	**19.50**
R45	Interior Only	**12.50**
R45-S	Interior Only	**14.00**

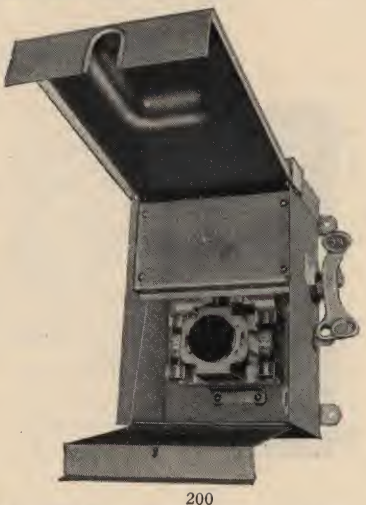
EXTRA SWITCHES FOR REMOTROLS

RS-1	M. C. Flush Toggle Switch	**$ .90**
RS-2	M. C. Flush Toggle Switch (Special)	**.60**
RS-3	M. C. Flush Toggle Switch	**1.60**
RS-4	M. C. Pushbutton Switch with 6" Leads	**1.20**

Remotrols for Special Voltages on Request

HOFFMAN MOTOR STARTER

With Power Outlet



200

For welders, motors, power tools, portable electric power units up to 10 H.P. or 50 Amperes at 250 Volts. Snap action starter (patent pending) with ceramic contact carriers prevent leakage and tracking. Box 11⅝" high, 5⅛" deep, 7½" wide 16 gauge steel, "rain-tight" construction—complete weatherproof. Baked on durable "hammered" grey enamel surface for corrosion protection. Cover may be closed with attachment plugs in place—May be locked or sealed. Convenient mounting straps. Motor protection and short circuiting protection with proper size fuses. Equipped with 60 Amp. fuse clips suitable for "delayed" type fuses. Terminals, blades, busses and fuse clips all silver plated for minimum resistance of connections. Terminals solderless type for ease of wiring. Work parts zinc plated.

125-250V., 50 Amps. 240 V., single phase, 1 to 10 H.P.

Model 200—Motor starter. List price each **$30.00**

HANKSCRAFT TIME-A-CONTROL

Telechron Motored



The Time-A-Trol timer is a handsome Telechron motored electric household clock with built-in time switch.

TIME SWITCH provides one or several on and off periods each 24 hour day. Switches water heaters on by remote control during low load periods.

HANKSCRAFT TIME-A-CONTROL. List price each.... **$42.00**

HOFFMAN SWITCH-O-LITE REMOTE CONTROL

Approved by Underwriters' Laboratories, Inc.

One Wire Required from Control Box to Switch Locations



540

Saves cost of 4-way switches for control at more than two points.

Saves lighting, gives economy plus convenience of control for yard lights, motors, pumps, machines, etc.

Consists of a single-pole, single-throw, magnetically operated latch-type relay, fuse holder, and terminal board, all housed in a die cast aluminum enclosure, machined and gasketed to provide a completely weather-proof container rated at 115 volts, 60 cycle A.C., 10 ampere, non-inductive, with an operating coil suitable for continuous duty.

Connection outlets have been provided on both top and bottom, weatherproof, die cast aluminum relay box. Permits installation by the most convenient method—either with conduit or flexible cable.

Model 540—Remote control. List price each **$12.50**

HOFFMAN MOMENTARY CONTACT SWITCHES



D60

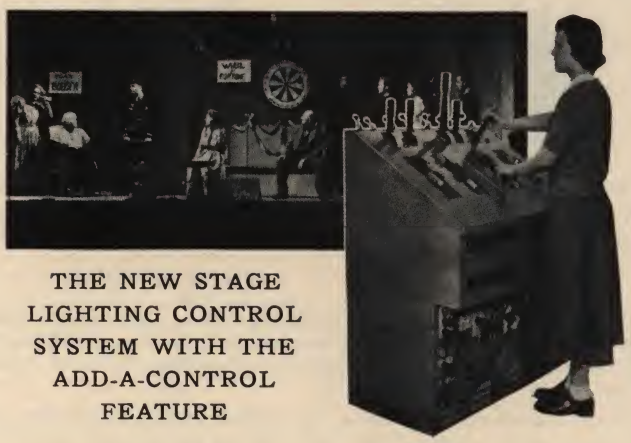
No.	List Price Each
D60—M.O. toggle. Brown	**$1.50**
D60—M.O. toggle. Ivory..	**1.70**
48—M.O. cylindrical. Fits ½" aperture.....	**1.70**



48

DAVIS CONSOLE MASTER

FOR SCHOOL, AUDITORIUM, THEATRE, CHURCH OR ANY APPLICATION REQUIRING DIMMER CONTROL



THE NEW STAGE LIGHTING CONTROL SYSTEM WITH THE ADD-A-CONTROL FEATURE

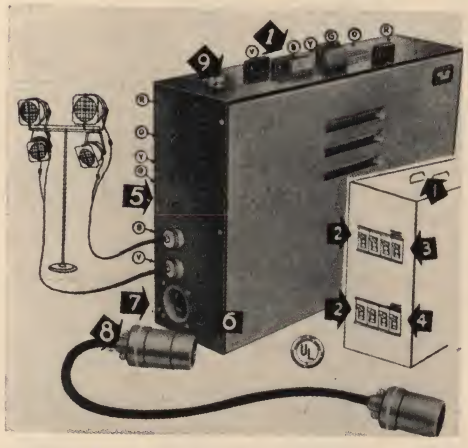


Master control board. One operator has at his fingertips dimming controls which in other boards might require a room full of dimmers and several operators. Yet this one operator has greater flexibility and can concentrate on the effects desired rather than on the mechanics of operation. Schools can equip their stages, small or large, with all the lighting circuits they need and control them in a small, compact, easy-to-operate control board.

WALL TWIN CONTROL BOARD

Gives amazing flexibility and lighting control. Convenient and inexpensive—Dimmers, breaker and transfer switches and plugging panel. A complete stage lighting control system. Large enough to handle all stage lighting needs for schools, churches and small theatres. Takes minimum space and conveniently arranged for simple, easy operation.

DAVIS PORTABLE SWITCHBOARD DIMMER



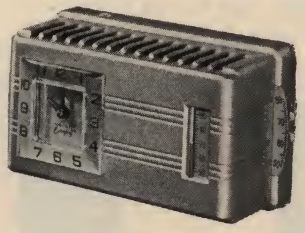
MODEL TL-67

1. Six control sliders for easy identification. Position of sliders determines the brightness of lights being controlled.
2. Six 20-ampere silent breaker switches protect each of six dimmer circuits.
3. One 50-ampere silent breaker switch acts as a master switch to protect and control all six sliders at once.
4. One 15-ampere silent breaker controls and protects the convenience outlet.
5. Built-in plugging panel contains two twist-lock receptacles for each slider. They are colored the same as the slider and breaker that control the circuit. The various lights to be controlled are plugged into these receptacles.
6. Convenience outlet—not dimmer controlled.
7. Power feeder receptacle—a twist-lock input receptacle to connect power to dimmer.
8. Twist-lock power connector plug—connects to power feeder receptacle. Six feet of power feeder cable also included with each dimmer.
9. Operation light—for operation of slider controls.
10. Wooden carrying case—for storage when not in use.

Write for further information or estimates on stage lighting equipment best suited to your school, church, theatre or television station.

HONEYWELL CONTROLS

CHRONOTHERM ROOM THERMOSTATS



One basic model for use with any oil, gas or stocker control; one heater element for all applications. Cool, comfortable sleeping temperature—the Warm Good Morning—fuel saving. Automatically lowers room temperature for desired period at night (minimum 6 hours)—automatically returns to the normal daytime control setting. Temperature setting can be made externally.

Compactly designed with horizontal lines and a silver-bronze finish. Will be an attractive addition to any home. Voltage and frequency: 115V, 60 cycles, standard. Height 2⅞", width 5", depth 2½". Differential: adjustable. Clock transformers.



LIMIT CONTROLS

WARM AIR—HOT WATER STEAM

Airstat (warm air)—designed for bonnet mounting—furnishes high limit protection to warm air furnaces. Available with adjustable or fixed differentials as well as fixed or adjustable stops to limit maximum temperature settings.

Furnacestat—furnace fan controller which prevents operation of the fan controller until the required bonnet temperature has been reached.

Furnace Control—combines the function of a furnace fan controller and a high limit control. Settings are interlocked to prevent limit cutout below the fan "On" point. Manual fan switch provides for continuous fan operation in the summer.

Aquastats—(hot water control)—low voltage temperature controllers for use with hot water heating systems. The accuracy of these controllers makes them particularly adaptable to summer-winter hot water systems.

Pressuretrol—(steam)—for application as a high limit control on steam heating systems. Also available for use to control air liquids or non-combustible gases (providing their chemical content is not injurious). Available for low or high pressure ranges.

OIL BURNER CONTROLS



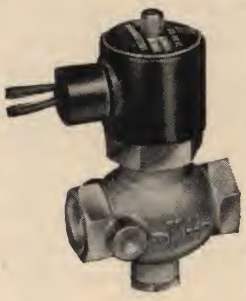
Protectorelays—(oil boiler relay)—Stack mounted for constant ignition burners and for intermittent ignition burners. Operate quickly and reliably in the low stack temperatures. Ignition failure causes the safety to "lock-out" and the burner will not start until manually set. The Protectorelay will make one attempt to restart (recycle) after a scavenger period and will "clock-out" if flame is not established.

STOKERELAY

Combines the functions of a relay and a synchronous timing mechanism. Maintains fire in a stoker fired furnace or boiler when the thermostat does not ordinarily call for enough heat to keep fire alive.

Timing is adjustable from ½ to 7½ minutes every half hour or hour as desired.

GAS CONTROLS



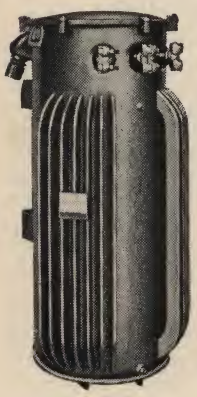
Solenoid valves are designed for use on gas fired furnaces, boilers, floor furnaces, space heaters, central heating units and conversion burners where two-wire control is used. All models are equipped with a positive action type plunger to insure positive closing and opening of the valve on the rated pressure. Valves operate on line voltage or on low voltage and are furnished with a power type, plate transformer. The pressure rating on all valves is ¼ lb. except ½ lb. for propane or butane.

WRITE FOR CATALOG—WITH INSTRUCTIONS, SPECIFICATIONS AND PRICES ON AUTOMATIC HEATING CONTROLS.

WAGNER DISTRIBUTION TRANSFORMERS

OIL-IMMERSED, SELF-COOLED

Single-Phase 60 Cycle
55° Continuous Duty



Type HEX
100-KVA



Type HEB
15-KVA



Type HEK
15-KVA

HEX—Equipped with hv pocket bushings and lv sidewall bushings (100 kva and smaller, 5000 volts and below).

HEB—Equipped with hv and lv sidewall bushings (100 kva and smaller, 5000 volts and below).

HEK—Equipped with hv cover bushings and lv sidewall bushings (167-500 kva, 5000 volts and below, 500 kva and smaller, 5001 to 67,000 volts. Exception—see type HEL).

KVA	List Price (Eastern Zone)	Type	Approximate Net Weight (In lbs. incl. oil)	Oil (In gals.)
	2400/4160Y (2-2½% Taps Above and Below) to 240/480 volts or 600 volts			
3*	$142.00	HEX or HEB	120	4.2
5*	220.00	HEX or HEB	160	4.7
10*	340.00	HEX or HEB	245	8.6
15*	434.00	HEX or HEB	360	14.2
25*	600.00	HEX or HEB	555	22
37½*	786.00	HEX or HEB	1015	32
50*	962.00	HEX or HEB	1290	39
75*	1284.00	HEX or HEB	1730	60
100*	1600.00	HEX or HEB	1995	66
167	2426.00	HEK	3300	113
250**	3426.00	HEK	4450	163
333**	4126.00	HEK	5600	195
500**	5400.00	HEK	7000	255
	7200/12470Y or 7620/13200Y (2-2½% Taps Above and Below) to 240/480 volts or 600 volts			
3*	$170.00	HEK	145	5.0
5*	266.00	HEK	180	6.8
10*	424.00	HEK	270	10.5
15*	544.00	HEK	420	17
25*	742.00	HEK	610	25
37½*	972.00	HEK	1030	45
50*	1178.00	HEK	1250	47
75*	1562.00	HEK	1515	62
100*	1864.00	HEK	1730	57
167	2582.00	HEK	3650	150
250**	3530.00	HEK	4450	163
333**	4190.00	HEK	5600	195
500**	5436.00	HEK	7000	255
	12000 (2-2½% Taps Above and Below) to 240/480 volts or 600 volts			
3*	$208.00	HEK	175	7.1
5*	284.00	HEK	220	8.4
10*	434.00	HEK	275	10.5
15*	548.00	HEK	415	16.7
25*	742.00	HEK	605	24.5
37½*	972.00	HEK	1030	45
50*	1178.00	HEK	1260	47
75*	1562.00	HEK	1530	62
100*	1864.00	HEK	1750	57
167	2582.00	HEK	3650	150
250**	3530.00	HEK	4450	163
333**	4190.00	HEK	5600	195
500**	5436.00	HEK	7000	255

*Information also applies to 120/240 volt lv with standard taps in hv winding.

**Suitable for series-multiple only on 240/480 volts lv.

AE DRY-TYPE TRANSFORMERS

Single-Phase—55° C. Continuous Duty



Type AE—10 KVA



Type AE—15 KVA

Can be installed anywhere in factories, offices, stores and homes —in out-of-the-way places, or immediately at the point of use, adjacent to the appliance or machine requiring lower or higher voltage.

Dry-type transformers available in ratings from 1 to 200 kva, 600 volts and below, single-phase, two coil, type AE and from 3 to 300 kva, 600 volts and below, three-phase, two coil, Type AP.

RATINGS 10 KVA AND SMALLER, constructed with endplates clamped over core and coils by through bolts and are designed for wall mounting. Conduit knockouts in the sides and bottom of lower endplate, which is furnished with removable cover, give access to 8 inch leads in wiring compartment. These ratings are suitable for indoor or outdoor installation. Listed ratings in this range all bear Underwriters Approval.

RATINGS 15 KVA AND LARGER are enclosed in ventilated sheet steel cases. Solderless connections inside the case are reached via nipples in the side of the case. These ratings are suitable for indoor installations only. They are normally floor or platform mounted.

RATING* Voltage	KVA	List Price Each	Size of Conduit H.V.	Size of Conduit L.V.
240 x 480 to 120/240 (No Taps)	1	$ 50.00	¾-1¼"	¾-1¼"
	1.5	61.00	¾-1¼"	¾-1¼"
	2	74.00	¾-1¼"	¾-1¼"
	3	100.00	1-1½"	1-1½"
	5	145.00	1-1½"	1-1½"
	7.5	200.00	1-2"	1-2"
	10	250.00	1-2"	1-2"
	15	348.00	1¼"	2"
	25	536.00	1½"	2"
	37.5	685.00	2"	2½"
	50	825.00	2"	2½"
480 to 120/240 (4-2½% Taps Below 480V.)	1	$ 52.00	¾-1¼"	¾-1¼"
	1.5	64.00	¾-1¼"	¾-1¼"
	2	78.00	¾-1¼"	¾-1¼"
	3	104.00	1-1½"	1-1½"
	5	152.00	1-1½"	1-1½"
	7.5	210.00	1-2"	1-2"
	10	262.00	1-2"	1-2"
	15	364.00	1¼"	2"
	25	562.00	1½"	2"
	37.5	717.00	2"	2½"
	50	864.00	2"	2½"
600 to 120/240 (4-2½% Taps Below 600V.)	1	$ 56.00	¾-1¼"	¾-1¼"
	1.5	69.00	¾-1¼"	¾-1¼"
	2	83.00	¾-1¼"	¾-1¼"
	3	112.00	1-1½"	1-1½"
	5	163.00	1-1½"	1-1½"
	7.5	225.00	1-2"	1-2"
	10	281.00	1-2"	1-2"
	15	390.00	1¼"	2"
	25	602.00	1½"	2"
	37.5	769.00	2"	2½"
	50	926.00	2"	2½"
	75	1157.00	2½"	3"
	100	1370.00	2½"	3½"

*Transformers rated 240 x 480 to 120/240 volts without taps are stock ratings. Specifying transformers of this voltage rating will permit stock delivery, when available.

G.E. DRY TYPE TRANSFORMER

FOR GENERAL LIGHT AND POWER SERVICE
TYPE M—INDOOR OR OUTDOOR. TYPE D—INDOOR ONLY
0.250 TO 100 KVA—SINGLE-PHASE, 60 CYCLES

APPLICATION

★To reduce the voltage of 240-, 480-, or 600-volt power circuits to either 120 or 240 volts for supplying lights and other equipment. Some ratings are also suitable for insulating one circuit from another without change in voltage. You can use these transformers in banks on polyphase circuits.

Type	Voltage Rating Primary	Voltage Rating Secondary	Kva Output	No.	List Price	Approx. Wt. in Lbs. Net	Approx. Wt. in Lbs. Ship.
	220	110	0.250	61G5	$22	13	17
M	230	115	.500	61G6	31	20	25
	240	120	.750	61G7	39	30	35
			1	76G108	50	40	45
			1.5	76G109	61	49	55
			2	76G110	74	60	67
	110/220	110/220	3	95G11	100	57	59
M	115/230	115/230					
	120/240	120/240	5	95G12	145	90	98
			7.5	95G13	200	120	128
			10	95G14	250	204	222
			15	95G15	348	281	299
	110/220	110/220	25	95G16	536	375	415
D	115/230	115/230	37.5	95G17	685	475	520
‡†	120/240	120/240	50	95G18	825	615	667
	440	110	0.250	61G19	22	13	17
M	460	115	.500	61G20	31	20	25
	480	120	.750	61G21	39	30	35
	440	220	0.250	61G26	22	13	17
M	460	230	.500	61G27	31	20	25
	480	240	.750	61G28	39	30	35
			1	76G129	50	40	45
			1.5	76G130	61	49	55
			2	76G131	74	60	67
	220/440	110/220	3	95G32	100	57	59
M	230/460	115/230					
	240/480	120/240	5	95G33	145	90	98
			7.5	95G34	200	120	128
			10	95G35	250	204	222
			15	95G36	348	281	299
	220/440	110/220	25	95G37	536	375	415
D	230/460	115/230	37.5	95G38	685	475	520
‡	240/480	120/240	50	95G39	825	615	667
	220/440	110/220	75	95G57	1108	775	827
D	230/460	115/230					
§	240/480	120/240	100	95G58	1312	975	1027
	550	110	.250	61G40	24	13	17
M	575	115	.500	61G41	33	20	25
	600	120	.750	61G42	42	30	35
	550	220	.250	61G47	24	13	17
M	575	230	.500	61G48	33	20	25
	600	240	.750	61G49	42	30	35
			1	76G150	52	40	45
			1.5	76G151	64	49	55
			2	76G152	78	60	67
	550	110/220	3	95G49	104	57	59
M	575	115/230					
	600	120/240	5	95G50	152	90	98
			7.5	95G51	210	120	128
			10	95G52	262	204	222
			15	95G53	364	281	299
	550	110/220	25	95G54	562	375	415
D	575	115/230	37.5	95G55	717	475	520
‡	600	120/240	50	95G56	864	615	667
	550	110/220	75	95G59	1157	775	827
D	575	115/230					
*	600	120/240	100	95G60	1370	975	1027



Fig. 1. Small Type M transformer



★Fig. 2. Type M transformer



Fig. 3. Type M transformer

* These Type D transformers are provided with (4) rated-kva 2½% taps below ★600 volts.

† Whenever possible ★240/480-120/240-volt transformers should be ordered in preference to these units in order to obtain stock shipment.

‡ These Type D transformers can be wall-mounted by use of wall hangers. The weights given above do not include these hangers.

§ These Type D transformers are provided with rated-kva taps available as (4)-2½% taps below ★480 volts or (2)-5% taps below ★240 volts.

JOSLYN POLE LINE MATERIAL



STANDARD FIR CROSS ARMS

3¼x4¼ Electric Light Arms or Heavy Telephone Arms

No.	Wgt. Lbs. Per 100	Length Arm	No. Pins	List Price* Per Units	No.	Wgt. Lbs. Per 100	Length Arm	No. Pins	List Price* Per Units
J5800	1062	3 ft.	2	$128.90	J5806	2832	8 ft.	8	$663.60
J5801	1416	3 ft.	4	331.80	J5807	3009	8 ft. 6 in.	10	746.56
J5802	1770	5 ft.	4	414.76	J5808	3540	10 ft.	8	829.50
J5803	2124	6 ft.	4	499.70	J5809A	3540	10 ft.	10	829.50
J5804	2124	6 ft.	6	497.70	J5809B	3540	10 ft.	10	829.50
J5805	2832	8 ft.	6	663.60	J5810	3540	10 ft.	12	829.50

2¾x3¾ Pony Telephone Arms

J5822	945	3 ft. 6 in.	4	$275.20	J5825	2295	8 ft. 6 in.	10	$616.78
J5823	1395	5 ft. 2 in.	6	411.20	J5826	2700	10 ft.	12	685.32
J5824	1845	6 ft. 10 in.	8	479.72					

3½x4½ N.E.L.A. Arms

J5828	1267	3 ft. 2 in.	2	$351.50	J5830	3200	8 ft.	6	$703.00
J5829	2300	5 ft. 7 in.	4	527.26	J5831	3667	9 ft. 2 in.	8	878.76

Specify pin hole diameters on all orders.
Special crossarms quoted on request.
*F.O.B. Minn. Transfer, Minn.

CROSS ARM BRACES



1 7/32x7/32-INCH SIZE
A.S.T.M. A107
.35/.50 Carbon

No.	For Arms with Brace Bolt Spacing Ins.	Lgth. Ins.	Wt. Lbs. per 100	List Price Per 100 Units
J7020	25	20	131	$44.08
J7022	28	22	145	48.04
J7024	32	24	159	52.02
J7026	33	26	173	54.98
J7028	36-38	28	187	59.94
J7030	42	30	201	63.90
J7032	42	32	215	67.86

1¼x¼-INCH SIZE
A.S.T.M. A-7
Structural Grade

No.	Lgth. Ins.	Wt. Lbs. Per 100	List Price Per 100 Units
J7120	20	170	$51.36
J7122	22	185	56.06
J7124	24	200	60.78
J7126	26	215	65.46
J7128	28	230	70.18
J7130	30	245	74.88
J7132	32	260	79.58



ANGLE CROSS ARM BRACES

A.S.T.M. A7 Structural Grade
Hot Dip Galvanized

No.	Size Angle Inches	Span Inches	Drop Inches	Wt. Lbs. Per 100	List Price Per 100
J1505	1½x1½x⅛	37	12	740	$306.46
J1506	1½x1½x¼	42	12	800	331.12
J1507	1½x1½x⅛	48	14	900	353.28
J1514	1½x1½x¼	48	18	1000	380.44
J1508	1½x1½x⅛	60	18	1140	418.56
J1510	1¾x1¾x¼	60	18	1340	485.98
J1511	1¾x1¾x¼	66	20	1480	535.12
J1512	1¾x1¾x⅛	72	22	1625	576.02
J1513	2 x2 x⅛	72	22	1833	638.10

MACHINE BOLTS

Hot Dip Galvanized

No.	Size Inches	Wgt. Lbs. Per 100	List Price Per 100
J8707	½x7	48	$25.86
J8708	½x8	53	27.28
J8709	½x9	57	28.70
J8710	½x10	62	30.10
J8712	½x12	71	32.94
J8714	½x14	80	35.76
J8716	½x16	89	38.62
J8718	½x18	98	41.42
J8720	½x20	107	44.34
J8801½ to J8805	⅝x1½ to ⅝x5	Prices on Application	
J8806	⅝x6	68	31.72
J8807	⅝x7	75	34.12
J8808	⅝x8	82	36.52
J8809	⅝x9	89	38.94
J8810	⅝x10	103	41.32
J8812	⅝x12	117	46.14
J8814	⅝x14	131	51.98
J8816	⅝x16	145	55.78
J8818	⅝x18	159	$60.60
J8820	⅝x20	173	65.42
J8822	⅝x22	187	70.22
J8824	⅝x24	201	75.06
J8826	⅝x26	215	79.86
J8828	⅝x28	229	84.66
J8901½ to J8907	¾x1½ to ¾x7	Prices on Application	
J8908	¾x8	124	58.60
J8910	¾x10	143	64.54
J8912	¾x12	163	70.48
J8914	¾x14	183	76.44
J8916	¾x16	203	82.38
J8918	¾x18	223	88.32
J8920	¾x20	243	94.26
J8922	¾x22	276	100.24
J8924	¾x24	296	106.18
J8926	¾x26	316	112.12
J8928	¾x28	336	118.08



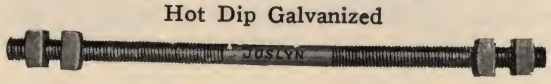
CARRIAGE BOLTS

Hot Dip Galvanized

No.	Size In.	Wgt. Lbs. Per 100	List Price Per 100
J8633	⅜x3	12.2	$8.02
J8633½	⅜x3½	14.0	8.52
J8634	⅜x4	15.8	8.98
J8634½	⅜x4½	17.6	9.50
J8635	⅜x5	19.4	9.96
J8635½	⅜x5½	21.2	10.44
J8636	⅜x6	23.0	$10.92
J8644	½x4	31.4	15.86
J8644½	½x4½	33.4	16.64
J8645	½x5	35.4	17.44
J8645½	½x5½	37.4	18.22
J8646	½x6	39.4	19.02

DOUBLE ARMING BOLTS

Hot Dip Galvanized



J8842	½x12	88	$43.22	J8870	⅝x20	195	$89.22
J8844	½x14	97	46.16	J8872	⅝x22	209	94.92
J8846	½x16	106	49.44	J8874	⅝x24	223	98.60
J8848	½x18	115	52.58	J8882	¾x12	207	89.01
J8850	½x20	129	55.72	J8884	¾x14	227	94.44
J8852	½x22	138	58.86	J8886	¾x16	247	101.72
J8854	½x24	147	61.92	J8888	¾x18	275	109.02
J8862	⅝x12	139	63.40	J8890	¾x20	295	116.34
J8864	⅝x14	153	76.56	J8892	¾x22	315	123.66
J8866	⅝x16	167	80.10	J8894	¾x24	335	130.96
J8868	⅝x18	181	85.60				



LAG SCREWS

Hot Dip Galvanized

No.	Size Inches	Wgt. Lbs. Per 100	List Price Per 100
J8742¼	⅜x2¼	8.1	$7.18
J8742½	⅜x2½	8.9	7.38
J8743	⅜x3	9.2	7.86
J8743½	⅜x3½	12.1	8.36
J8744	⅜x4	13.1	8.82
J8744½	⅜x4½	14.2	9.32
J8745	⅜x5	15.4	9.80
J8746	⅜x6	17.7	10.76
J8753	½x3	19.1	$11.68
J8753½	½x3½	21.0	12.56
J8754	½x4	24.2	13.48
J8754½	½x4½	26.0	14.38
J8755	½x5	28.4	15.28
J8756	½x6	32.8	17.10
J8765	⅝x5	44.2	25.92
J8766	⅝x6	52.8	27.82



GALVANIZED WASHERS

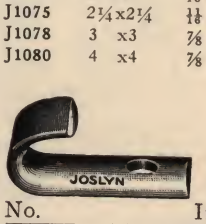


Square

No.	Size Inches	Size Hole In.	Wgt. Per 100	List Price Per 100
J1073	2 x2	9/16	14.4	$6.62
J1075	2¼x2¼	11/16	25.0	8.58
J1078	3 x3	⅞	47.0	16.62
J1080	4 x4	⅞	86.0	28.90

Round

No.	Dia. Inches	Size Hole Inches	Wgt. Per 100	List Price Per 100
J1084	1	9/16	1.5	$1.28
J1085	1⅜	9/16	2.9	1.90
J1088	1¾	11/16	8.5	5.64
J1089	2	13/16	11.4	6.74



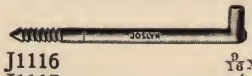
GALVANIZED GUY HOOKS

No.	Size Inches	Bolt Holes	Wgt. Lbs. Per 100	List Price Per 100
J1017	1½x⅜x3½	1	60	$27.62
J1018	1½x⅜x6	2	81	38.80
J1019	1¾x⅜x4	1	77	38.80



GALVANIZED POLE SHIMS

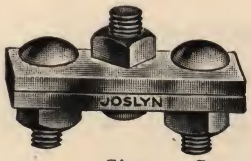
No.	Size Inches	Wgt. Lbs. Per 100	List Price Per 100
J1036	1¼x¼x8	70	$20.48



STEEL POLE STEPS WITH HOOK

J1116	9/16x9	73	$55.04
J1117	⅝x9	80	38.86
J1118	⅝x10	95	41.32

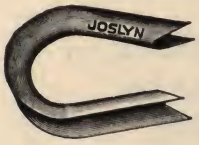
JOSLYN POLE LINE MATERIAL



GALVANIZED GUY CLAMPS

No.	Size Inches	Strand Size	Description	Wgt. Lbs. Per 100	List Price Per 100
J1030	3	5/16-5/16	With 2 Bolts	127	$57.54
J929	4	5/16-3/8	With 3 Bolts	178	81.30
J930	6	1/4-5/16	With 3 Bolts	248	99.18

GALVANIZED WIRE ROPE THIMBLES



No.	Size Inches	Wgt. Lbs. Per 100	List Price Per 100
J1057	3/8	10.3	$14.20
J1058	1/2	22.4	19.20
J1059	5/8	42.6	26.66
J1060	3/4	60	31.56

DROP-FORGED EYE-BOLTS



1/2-Inch Diameter 1 1/4x1 1/2 Inch I.D. Eye Cut Thread

No.	Lgth. Inches	Wgt. Lbs. Per 100	List Price Per 100
J9305	1/2x 5	66	$97.62
J9306	1/2x 6	72	99.10
J9308	1/2x 8	84	102.08
J9310	1/2x10	96	105.04
J9312	1/2x12	108	108.02
J9314	1/2x14	120	110.98
J9316	1/2x16	132	113.96
J9318	1/2x18	144	116.92

5/8-Inch Diameter 1 1/2x2 Inch I.D. Eye Rolled Thread

No.	Lgth. Inches	Wgt. Lbs. Per 100	List Price Per 100
J9405	5/8x 5	120	$73.18
J9406	5/8x 6	127	78.00
J9408	5/8x 8	141	82.80
J9410	5/8x10	155	87.62
J9412	5/8x12	169	92.42
J9414	5/8x14	183	97.28
J9416	5/8x16	197	102.08
J9418	5/8x18	211	106.86
J9420	5/8x20	225	111.70
J9422	5/8x22	239	116.50



THIMBLEYE BOLTS

No.	Lgth. Inches	Wgt. Lbs. Per 100	List Price Per 100
J8050	5/8x 8	134	$97.82
J8051	5/8x10	150	101.82
J8052	5/8x12	166	105.96
J8053	5/8x14	182	109.92
J8054	5/8x16	198	114.96

No.	Lgth. Inches	Wgt. Lbs. Per 100	List Price Per 100
J8060	3/4x 8	181	$142.96
J8061	3/4x10	205	150.22
J8062	3/4x12	229	157.22
J8063	3/4x14	253	164.44
J8064	3/4x16	277	171.88

THIMBLEYE ANCHOR RODS

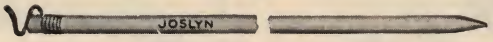


No.	Diam. In.	Lgth. Ft.	Wt. Lbs. per 100	List Price per 100
J7405	1/2	5	350	$180.46
J7406	1/2	6	410	198.58
J7407	1/2	7	470	216.70
J7415	5/8	5	540	241.40

No.	Diam. In.	Lgth. Ft.	Wt. Lbs. per 100	List Price per 100
J7416	5/8	6	640	$270.40
J7417	5/8	7	740	299.42
J7418	5/8	8	840	328.38

GROUND RODS

Hot Dip Galvanized



WITHOUT WIRE

No.	Size	Wt. Lbs. Per 100	List Price Per 100
J5315	1/2x 5′	320	$115.30
J5316	1/2x 6′	386	135.32
J5317	1/2x 7′	452	155.34
J5318	1/2x 8′	518	175.34
J5326	5/8x 6′	600	191.08
J5327	5/8x 7′	700	221.58
J5328	5/8x 8′	800	252.08

WIRED

No.	Size	Wt. Lbs. Per 100	List Price Per 100
J1098	1/2x 5′	340	$152.20
J1099	1/2x 6′	406	172.20
J1100	5/8x 6′	600	235.74
J1148	5/8x 8′	800	296.82

Copperweld Ground Rods

No.	In. by Ft.	Wt. Per 100	List Price Per 100
J8326	1/2x 6	410	$185.44
J8327	1/2x 7	480	213.44
J8328	1/2x 8	550	241.50
J8329	1/2x 9	615	268.24
J8330	1/2x10	685	287.56

No.	In. by Ft.	Wt. Per 100	List Price Per 100
J8336	5/8x 6	640	$279.48
J8337	5/8x 7	750	223.16
J8338	5/8x 8	855	366.28
J8339	5/8x 9	960	409.44
J8340	5/8x10	1070	453.10



JOSLYN SCREW ANCHORS

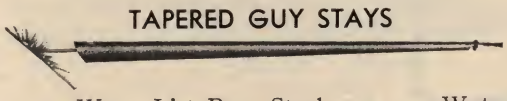
No.	Anchor Size Inches	Rod Size	Weight Per 100	List Price Each
J-6524	4	3/4″x4 1/2′	765	$3.88
J-6526	6	3/4″x5 1/2′	1065	5.60
J-6528	8	1″x5 1/2′	2016	9.98



EVERSTICK ANCHORS LESS PODS

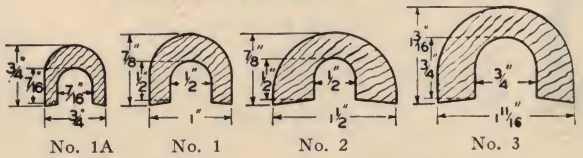
No.	Inches		Rod Size Inches	Weight Per 100	List Price Each
J-1591	6	2 Way	5/8	680	$3.18
J-1677	8	3 Way	5/8	1100	4.44
J-1678	8	3 Way	3/4	1400	5.08
J-1679	8	3 Way	3/4	1450	6.30

TAPERED GUY STAYS



Stock No.	Std.	Wgt. Per 100	List. Pr. Per 100	Stock No.	Hvy.	Wgt. Per 100	List. Pr. Per 100
J1617	7′	1200	$639.82	J1604	7′	1600	$731.76
J1618	8′	1400	701.58	J1605	8′	1800	813.58

WOOD MOULDING



No.	No. of Feet Per Bundle 8-Foot Lengths	10-Foot Lengths	Wgt. Lbs. Per 1000 Lineal Feet	List Price Per 1000 Ft.
1A	400	500	100	$ 80.50
1	400	500	120	119.50
2	200	250	180	152.50
3	200	250	310	247.50

GALVANIZED STAPLES



ROLLED

Slash Point

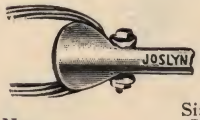
No.	Lgth. Inches	Spread at Shoulder Inches	Size Wire Inches	No. Per 100-Lb. Keg	List Price Per Cwt.
J1671	1 1/2	5/16	.148	7500	$34.52
J1672	1 1/2	1/4	.148	7300	33.56
J1673	1 3/4	1/4	.148	5000	33.42



SLASHED

Rolled Point

No.	Lgth. Inches	Spread at Shoulder Inches	Size Wire Inches	Wt. Lbs. Per 100	List Price Per 100
J126	1	3/8	1/8	.75	$ 1.46
J172	1 1/2	3/8	.148	1.25	1.82
J173	1 3/4	3/8	.148	1.56	2.00
J156	2	1/2	.162	2.50	2.48



GUY BOND CLAMPS

Hot Dip Galvanized FOR THIMBLEYE RODS

No.	Size Rod Inches	Size Strand Inches	Wgt. Lbs. Per 100	List Price Per 100
J3230	5/8, 3/4, 1	1/4 to 3/8, 7/16 to 7/16, 3/8 to 1/2	14	$37.76

JOSLYN POLE LINE MATERIAL



SQUARE M-F LOCK NUTS

Hot Dip Galvanized

Hexagon nuts can be furnished on special order.

No.	Bolt Size Inches	Width Inches	Thickness Inches	Wgt. Lbs. Per 100	List Price Per 100
J8581	3/8	5/8	1/4	1.5	$2.56
J8582	1/2	13/16	1/4	2.5	2.82
J8583	5/8	1	3/8	4.5	3.70
J8584	3/4	1 1/8	7/16	6.4	4.76
J8584 1/2	7/8	1 5/16	15/32	9.3	8.10
J8585	1	1 1/2	15/32	14.0	9.54



DROP FORGED EYENUTS

Hot Dip Galvanized

No.	Bolt Size Inches	Wt. Lbs. Per 100	List Price Per 100
J1091	1/2	62	$67.62
J1092	5/8	61	67.62
J1093	3/4	58	73.44



LIGHT TYPE CLEVISES

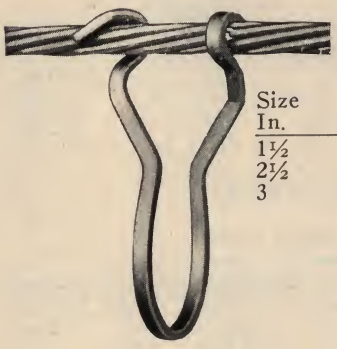
No.	Dimen. A	In. B	Wt. Lbs. Per 100	List Price Per 100
J703	3	1 3/4	61	$96.18
J705	3	2	71	96.58
J706	4	2	81	96.24



DROP FORGED THIMBLEYELETS

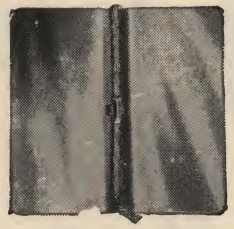
Hot Dip Galvanized

No.	Bolt Size. In.	Wt. Lbs. Per 100	List Price Per 100
J6550-C	5/8	118	$111.56
J6551	3/4	118	111.71



CABLE RINGS

Size In.	Size Strd. In.	Wt. Per 1000 Lbs.	List Price Per 100 Ft.
1 1/2	1 5/16	47	$3.88
2 1/2	1 15/16	108	6.53
3	2 1/4	124	7.40



POLE BOTTOM GROUND PLATES

No.	Tap Wire Capacity	Weight Per 100	List Price Per 100 Units
PBG	No. 10 Solid to No. 2/0 Str.	62 lbs.	$110.00

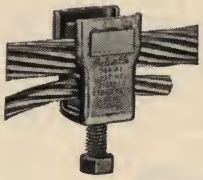
GROUND ROD CLAMPS

No.	Size	Wire Sizes Max.	Wire Sizes Min.	List Price Per 100
GG1/2	1/2"	2 Sol.	16 Sol.	$58.18
GG5/8	5/8"	2 Str.	8 Sol.	71.00
GG3/4	3/4"	2 Str.	8 Sol.	75.98



HOT LINE CLAMPS

No.	Type Conn.	Main Wire Size	Jumper Size	Wt. Per 100	List Price Each
1-WS	Cu to Cu	4/0 Str to 6 Sol	2/0 Str to 6 Sol	54	$1.30
1-WS-C	Al to Cu	6 ACSR w/armor to 8 ACSR	2/0 Str to 6 Sol Cu	54	1.30
WSB	Cu to Cu	400MCM to 6 Sol	2/0 Str to 6 Sol	88	1.70
WSB-C	Al to Cu	1/0 ACSR w/armor to 8 ACSR	2/0 Str to 6 Sol	88	1.70



RELIABLE FLIP-ON TAP CLAMPS

Stock No.	Line Side ACSR Over Armor Max.	Line Side ACSR Over Armor Min.	Line Side Wire Size Inches Max.	Line Side Wire Size Inches Min.	Tap Side ACSR Max.	Tap Side ACSR Min.	Tap Side Wire Size Inches Max.	Tap Side Wire Size Inches Min.	Wt. Lbs. Per 100	List Price Per 100
J3031			7/16	1/4	2	8	3/8	1/8	13 1/2	$49.58
J3055	4	8	1/2	3/8	4	8	1/4	5/6	13 1/2	49.58
J3016	2	4	9/16	1/2	4	8	1/4	5/6	13 1/2	49.58
J3044	1/0	4	3/4	7/16	1/0	4	3/8	5/16	40	71.14



JUMPER CLAMPS

No.	Wt. per 100	Max. ACSR	Min. ACSR	Max. Cu	Min. Cu	List Price Per 100
R-12	22	1/0	6	2/0	8	$100.00
R-22	22	1/0	6	—	—	74.00
R-33	22	—	—	2/0	8	72.00



GROUND CLAMPS

No.	Pipe Size	Tap Wire Size Min.	Tap Wire Size Max.	Weight Per 100	Std. Package	List Price Per 100
J	1/2"- 3/4"-1"	No. 10 Solid	No. 4 Str.	25 lbs.	100	$49.00
J-2	1 1/4"-1 1/2"-2"	No. 10 Solid	No. 4 Str.	50 lbs.	100	96.96



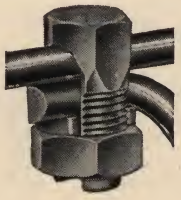
SERVICE ENTRANCE CONNECTORS

No.	Max. Wire Size	Wt. Per 100	List Price Per 100
SX-12	12 Sol.	1	$16.96
SX-10	10 Str.	2	18.20
SX- 6	6 Str.	3	19.16
SX- 4	4 Str.	4	24.90
SX- 2	2 Str.	6	28.26

SOLDERLESS CONNECTIONS

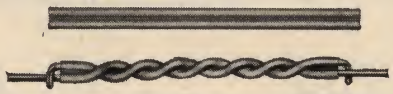
No.	Maximum Wire Size	List Price Per 100
10H	10 Stranded	$35.88
8H	8 Stranded	38.56
6H	6 Sol - 8A CW	42.52
6H-3*	6 Sol - 8A CW	44.58
4H	4 Sol - 6A CW	51.90
4H-3*	4 Sol - 6A CW	53.92
2H	2 Sol - 4A CW	73.18
2H-3*	2 Sol - 4A CW	75.68
1H	2 Stranded	79.86
1/0H	1/0 Stranded	106.44
2/0H	2/0 Stranded	175.72
4/0H	4/0 Stranded to 250,000 CM	298.24
350M	350,000 CM	451.44
500M	500,000 CM	586.36
750M	750,000 CM	988.08
1000M	1,000,000 CM	1,349.24

*For 3 Wires



JOSLYN POLE LINE MATERIAL

DOUBLE-TUBE COPPER SPLICING SLEEVES



No.	B&S	Length Inches	Wt. Lbs. Per 100	List Price Per 100
220	6	6	9	$14.26
222	8	5½	5¾	11.64
224	9	5¼	5¼	9.98
226	10	4¾	3¾	6.66
229	12	4½	2½	5.70
232	14	4	2	5.46

For tinned copper sleeves add 20% to above prices.

NICOPRESS SLEEVES



No.	Gauge	Wt. Lbs. Per 100	List Price Per 100	No.	Gauge	Wt. Lbs. Per 100	List Price Per 100
1-204-M	4 B&S	6¾	$25.90	1-080-D	12 B&S	1¾	$9.98
1-162-J	6 B&S	4½	14.26	1-064-C	14 B&S	1½	5.46
1-128-J	8 B&S	4½	14.26	3-045-B	17-18 B&S	¾	3.00
1-114-D	9 B&S	1½	9.98	4-049-B	18-19 BWG	¾	4.00
1-102-C	10 B&S	1¼	6.66	4-109-C	12 BWG	1¼	7.26
1-102-D	10 B&S	1½	9.98	2-083-C	14 BWG	1½	6.30
1-080-C	12 B&S	1½	5.70				

Letter after number indicates tool groove.

NICOPRESS SLEEVE TOOL



No.	Groove Combination	Weight	List Price Each
17-2	A, B	5 oz.	$ 5.00
31	C, D, E, J*	2 lb.	16.00
41	M, J	3½ lb.	29.00

*Available in any combination of two grooves shown.

WESTERN UNION STEEL PINS

Hot Dip Galvanized



Stock No.	With Long Shank Diameter Shank Inches	Weight Pounds per 100	List Price per 100	Stock No.	With Short Shank Diameter Shank Inches	Weight Pounds per 100	List Price per 100
J1190	½	70	$47.60	J1193	½	44	$54.30
J1191	⅝	104	71.18	J1195	⅝	65	72.10

GALVANIZED STEEL STRAND



7-Wire

Dia. Str. In.	Dia. Wires In.	Wgt. Per 1000 Feet	—Strength in Lbs.— Common Grade	Siemens-Martin	High	Extra High
¼	.080	121.0	1900	3150	4750	6650
5/16	.104	205.0	3200	5350	8000	11200
⅜	.120	273.0	4250	6950	10800	15400
7/16	.145	399.0	5700	9350	14500	20800

For prices see supplement.

GALVANIZED TELEPHONE-TELEGRAPH WIRE



No.	Diam. in In.	Wgt. in Lbs. Per Mile	Put Up in Bundles of	Approx. Breaking Strain in Pounds *EBB	*BB	Steel
4	.238	811	¼ mile	2,028	2,271	2,433
6	.203	590	⅛ mile	1,475	1,652	1,770
8	.165	390	½ mile	975	1,092	1,170
9	.148	314	½ mile	785	879	942
10	.134	258	½ mile	645	722	774
11	.120	206	½ mile	515	577	618
12	.109	170	½ mile	425	476	510
14	.083	99	½ mile	247	277	297

*EBB—Extra Best Best. *BB—Best Best.
For prices see supplement.



JOSLYN SECONDARY RACK SPOOLS

No.	Process	Wgt. Per 100 Lbs.	List Price Per 100
J100	Dry	46	$20.00
J101	Dry	116	29.30
J151	Wet	116	37.00
J0101	Wet	275	69.30
J97	Wet	136	38.50



JOSLYN WIRE HOLDERS

No.	Size Screw in Inches	Type	List Price Per 100
J089	22x2¼	Service	$53.20
J0893	22x3	Service	59.14
J1940	16x1½	Radio Lead	28.24
J1955	22x2¼	All Porcelain	46.74
J1960	22x2¼	All Porcelain	56.82

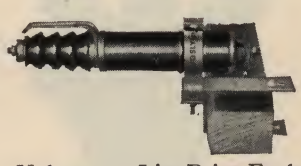
JOSLYN SECONDARY RACKS

Light Service



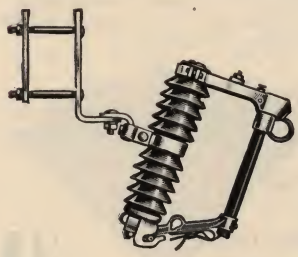
No.	No. of Wires	Wire Space in Inches	Length Overall Inches	Wgt. Per 100	List Price Per 100 Less Insulators
J2646	2	6	16	320	$227.32
J2648	2	8	18	380	239.18
J3646	3	6	22	500	311.90
J3648	3	8	26	560	339.36
J4646	4	6	28	640	402.16
J4648	4	8	34	760	430.72
		Medium Service			
J767	2	8	18	500	$276.90
J768	3	8	26	740	382.02
J769	4	8	34	980	498.80
		Heavy Service			
J1267	2	8	18	550	$234.90
J1268	3	8	26	830	476.04
J1170	4	8	34	1100	632.24
J1167	2	6	16	540	343.96
J1168	3	6	22	740	443.90
J1169	4	6	28	980	622.92

JOSLYN EXPULSION TYPE LIGHTNING ARRESTORS



No.	Wgt. Each	Voltage	List Price Each
J-9211-P	5¼ lbs.	1000-3000	$15.64
J-9221-P	6¼ lbs.	3000-6000	24.48
J-9231-P	7¼ lbs.	6000-9000	31.28

Other types and sizes available—write for details.
In ordering, specify type of mounting bracket required.



OPEN TYPE CUTOUTS

No.	Net Wgt. Lbs.	—Rating— Volts	Amps.	List Price Each
J9234-5	12	7,500	100	$29.26
J9254-5	20½	15,000	100	36.34

Other sizes and types available—write for details.

JOSLYN POLE LINE MATERIAL



CROSS-ARM PINS

No.		Shank Size Inches	List Price Per 100
J200	Steel	½	$112.48
J203	Steel	⅝	113.86



WOOD INSULATOR PINS

Stock No.	Size Pin Inches	Size Top Inches	Wt. Lbs. Per 100	List Price Per 100
J1760	1¼x8	1	32	$117.00
J1761	1½x9	1	45	160.00



WOOD BRACKETS

Stock No.	Size Inches	Wgt. Lbs. Per 100	List Price Per 100
J2550-4	1½x2 x10	60	$ 90.00
J2553-L. D.	1⅝x2 x12	80	112.50
J2555-W. U.	2 x2⅜x12	100	153.50
J2557-New W. U.	2 x2¾x12	115	177.50

POLE TOP PINS





No.	Wt. Lbs. Per 100	Thread Size, In.	Length Overall	List Price Per 100
J-583	274	1	15″	$135.82
J-2008*	335	1	18″	170.32
J-2010*	490	1	24″	319.70

*Flared Base.

G & W POTHEADS

TYPE "T" CAPNUT TERMINAL

Definite Oil-Tight Construction

Interchangeable Style of Lugs



Shape "B"

Having such a variety of shapes and sizes we can furnish you with potheads for any special condition. Any special shape of pothead casting is adapted to standard cable entrances and porcelain.

Instructions for Ordering

Give following information:

1. Mfr's. catalog number if possible.
2. **Number of conductors.**
3. **Operating Voltage.** (Alternating or Direct.)
4. **Outside diameter of cable.**
5. Shape of Pothead.
6. Outdoor or indoor use.
7. Type of connector.
8. Type of cable entrance.
9. Size of conduit coupling.
10. Diameter over armor. (If clamp is wanted.)

Give all information available.
Filling compound is furnished as a separate item on orders.
Cable Entrances (Wiping Sleeve, Combination CR & SB or Plain Bushings) are included in price. Conduit and Couplings and Armor Clamps are priced extra.

Prices on Application

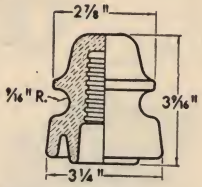
POLES—Western Red Cedar
Douglas Fir
Southern Yellow Pine

Write for Prices



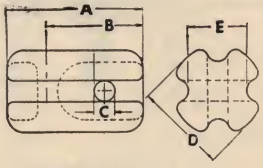
GLASS INSULATORS

No.	Wt. Per 100	List Price Per 100
H 9 Pony	63	$153.96
H12 DGPony	63	160.18
H19 DGDP	119	237.16



PIN-TYPE INSULATORS

No.	Voltage Dry	Flashover Wet	Wt. Per Ea.	List Price Per 100
L62	35,000	20,000	1¼	$42.24
L63	65,000	35,000	2¼	79.12
L223	50,000	25,000	1½	48.00
L401	50,000	30,000	1⅜	48.00



STRAIN INSULATORS

Wet Process

No.	Lgth. Inches	Wt. Per Each	List Price Per 100
L502	3⅞	⅞	$54.00
L504	4⅛	1½	72.00
L506	5½	3¼	90.00



DEAD END INSULATED CLEVISES

No.	Length in Inches	Ins. No.	Wt. Lbs. Per 100	List Price Per 100
J0339	4	J98	163	$80.82
J0340	5	J97	268	103.10
J093	4	J101	257	95.08
J0322	5	J151	267	111.16
J0344	5¾	J0613	544	224.86

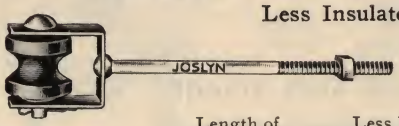


INSULATED FORK—LAG SCREW TYPE

No.	Length	Wt. Lbs. Per 100	List Price Per 100
J79	2½″	144	$78.64

INSULATED FORK WITH MACHINE BOLT

Less Insulators



No.	Length of Bolt	Less Insulator Wt. Lbs. Per 100	List Price Per 100
J7188	8″	179	$120.82
J7190	10″	190	125.94
J7192	12″	201	132.22
J7194	14″	212	141.84

Order J100 Insulators

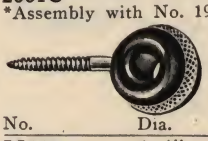


PIPE MOUNTING HOUSE BRACKET

Metal reinforced wire holder with clamp for attachment on 2″ pipe. Single point unit, ideal for multi-conductor cable.

No.	No. of Ins.	Std. Pkg.	List Price Per 100
2061C*	1	25	$64.20

*Assembly with No. 1968 Steel Reinforced Insulator.



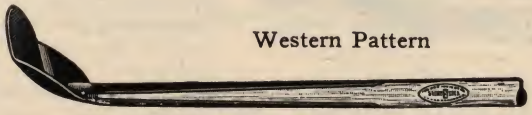
BRIDLE RING

No.	Dia.	Hole	Screen Shank	Wgt. Per 1000	List Price Per 1000
M444	1⅜″	⅝″	1⅛″	100 lbs.	$187.00

WRITE FOR
COMPLETE CATALOG OF
JOSLYN
POLE LINE EQUIPMENT

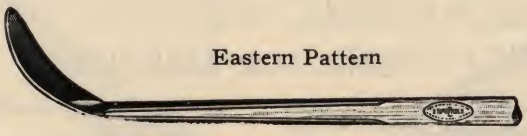
CONSTRUCTION TOOLS

TELEGRAPH SPOONS



Western Pattern

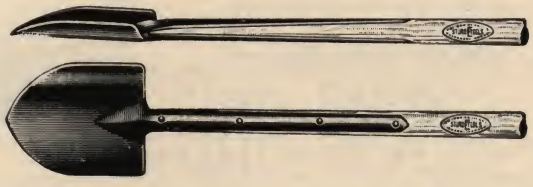
No.	T49	T50	T51	T52	T53	T54
Length Handle	6′	7′	8′	9′	10′	12′
Weight Each	9	10	11	12	13	15
List Price Each	$13.10	$14.20	$15.20	$16.90	$18.50	$20.90



Eastern Pattern

No.	TA55	T55	T56	T57	T58	T59A
Length Handle	6′	7′	8′	9′	10′	12′
Weight Each	9	10	11	12	13	15
List Price Each	$13.10	$14.20	$15.20	$16.90	$18.50	$20.90

TELEGRAPH SHOVELS



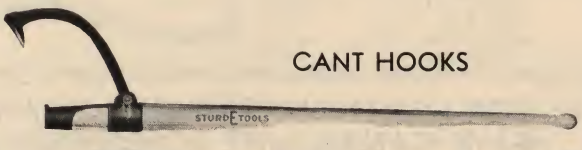
No.	T15	T16	T17	T18	T19	T20
Length Handle	6′	7′	8′	9′	10′	12′
Size Blade Ins.	9x12	9x12	9x12	9x12	9x12	9x12
Weight Each	9	10	11	12	13	15
List Price Each	$13.10	$14.20	$15.20	$16.90	$18.50	$20.90

MANY OTHER TYPES OF SHOVELS AVAILABLE. PLEASE WRITE FOR FULL INFORMATION

TIMBER CARRIERS OR LUG HOOKS



No.	Size	Wood Used	Wgt. Each, Lbs.	List Price Each
T100	2½″x4′	Maple	7	$1.90
T112	3″x5′	Hickory	12	2.60



CANT HOOKS

T119	2½″x4½′	Hickory	8	$16.70
T121	2½″x4′	Maple	7½	11.40
T122	2½″x4½′	Maple	8	11.70

CANT HOOK HANDLES ONLY

T130	2½″x4′	Hickory	3½	4.70
T133	2½″x4′	Maple	3½	2.35
T134	2½″x4½′	Maple	4	2.60

WOOD HANDLE TAMPING BARS



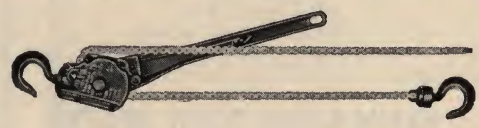
No.	Lgth. Ft.	Shoe	Wgt. Each, Lbs.	List Price Each
T418	8	Light	11	$17.60
T420	8	Heavy	12	19.90

FIR SPIKE POLES



No.	Dia.	Lgth. Ft.	Wgt. Lbs.	List Price Each
T205	2″	12	9	$12.90
T206	2″	14	11	14.30
T207	2″	16	13	15.90
T219	2½″	12	12	$16.30
T220	2½″	14	14	18.50
T221	2½″	16	16	19.80

COFFING SAFETY-PULL RATCHET LEVER HOISTS



Model	AG	ATG	FG	FTG	ZG6	WG9	WG11	WG13	WG15
Rated Capacity (tons)	¾	1½	1½	3	6	9	11	13	15
Standard Lift (inches)	56½	57	56½	57	53	60	60	60	60
Net Weight (Lbs.)	14	17	25	34	59	120	130	140	150

Prices upon Application

LINEMEN'S RUBBER GLOVES AND PROTECTORS



Rubber Gloves



Protectors

RUBBER GLOVES—CURVED FINGERS

No.	Voltage	—List Price Per Dozen Pairs— 14″	16″	18″
100-B	10 K.V.	$153.12	$159.24	$187.44
100-A	10 K.V.	171.60	178.00	205.92
100-15	15 K.V.	171.60	178.00	205.92
100-20	20 K.V.	187.44	193.40	218.60

PROTECTORS—FULL GAUNTLET

No.	Sizes	List Price Per Doz.
118-C	9, 9½, 10	$92.40
120-C	10½, 11	94.08
140-C	11½, 12	95.76



LINEMEN'S RUBBER BLANKETS

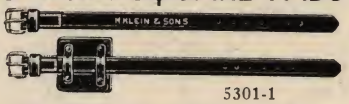
No.	Size	Descrip.	List Price Each
300	36″x36″x⅛″	—Plain	$18.50
300-E	36″x36″x⅛″	—Eyelets	19.50

KLEIN'S CLIMBER STRAPS AND PADS

All leather used is first quality harness leather. All sewing is lock stitched with genuine linen thread hot waxed. The buckles and buckle tongues are Klein standard solid steel drop forgings—tested to 1,500 lbs.

KLEIN'S CLIMBER STRAPS WITH SQUARE PADS

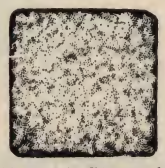
The set consists of: 2 upper (or calf) straps 1¼"x22". 2 lower (or ankle) straps 1¼"x22". 2 square pads 4"x4".



5301-1

No.	Description	Wt. Per Doz. Sets	List Pr. Per Set
5301-1	One set complete with plain pads.....	20 lbs.	$10.20
5301-2	One set complete with sheep-lined pads	20 lbs.	10.90
5301-3	One set complete with felt-lined pads ..	20 lbs.	10.90
	Same as Above but Straps 1" Wide		
5301-11	One set complete with plain pads	18 lbs.	9.10
5301-12	One set complete with sheep-lined pads	18 lbs.	10.00
5301-13	One set complete with felt-lined pads ..	18 lbs.	10.00





KLEIN'S CLIMBER PADS

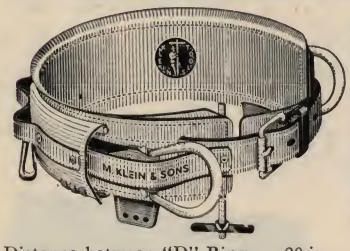
(Standard Square Shape)

8200	One pair (2 pcs.) Sheep-lined, 4"x4"	4 lbs.	$1.25
8201	One pair (2 pcs.) Felt-lined, 4"x4"	4 lbs.	1.25
8202	One pair (2 pcs.) Plain leather, 4"x4"	4 lbs.	.90

Made of select harness leather with loops at back through which climber strap passes.

KLEIN-KORD TOOL BELTS

Directions to Ensure Proper Fit of Linemen's Belts



Linemen's belts are usually specified by waist or body size but to ensure comfort in use it is important that the "D" rings do not rest on the hip-bones of the wearer. The correct position of the "D" rings is about 1 inch in front of the hip-bone on either side. To obtain correct body size of Klein's Tool Belt, measure (around the back) from hip-bone to hip-bone AND ADD TWO INCHES to this distance. Then refer to the table below and select the corresponding belt size.

Distance between "D" Rings	20 in.	22 in.	22 in.	24 in.	26 in.	28 in.
Belt Size	36 in.	38 in.	40 in.	42 in.	44 in.	46 in.

You may order by size or by distance between "D" rings.

A full-floating, sliding trace of the famous Klein-Kord"* material —1¾" wide—carries the single bar Dee rings. Trace slides through alloy steel guides, allowing approximately 6" of free movement. The tool strap, 1¼" wide, has five tool loops— is riveted on the apron with a reinforcing strap.

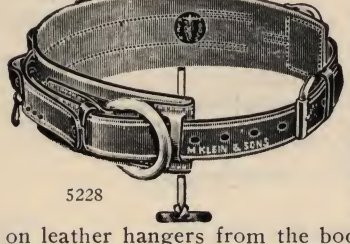
The soft, pliable, latigo leather cushion—4¾" wide—is pad-lined and edge-rolled for comfort. The 2" wide belt strap is of heavy harness leather with drop-forged buckle. Buckle and Dee rings tested to 1500 pounds. Fitted with tape thong, knife snap and ring for glove pouch. Furnished with pocket tabs on both sides, punched for lacing.

*Rated tensile strength per square inch, 5660 lbs.

5429 With Standard "D" Rings. Width 4¾".... 55 lbs. **$18.50**

KLEIN'S LEATHER TOOL BELTS

Made in Sizes 36, 38, 40, 42, 44 and 46 Ins. (Other sizes to order)



5228

The cushion—4½" wide at center of back and tapered to 3½" wide at the front—is soft, pliable, russet latigo leather, doubled to form comfortable rolled edges. The body strap is first quality russet harness leather 2" wide.

A russet harness leather tool strap 1¾" wide with five loops in the 1¼" loop strap is carried on leather hangers from the body strap to which it is looped at the ends. All hardware tested to 1500 lbs. Galvanized finish. Fitted with knife snap, tape thong and ring for glove pouch.

No.	Description	Wgt. Per Doz.	List Price Each
5228	With Standard (Single bar) "D" Rings. Width 4½" (Complete)	45 lbs.	$30.90

KLEIN'S LEATHER SAFETY STRAPS—2" WIDE

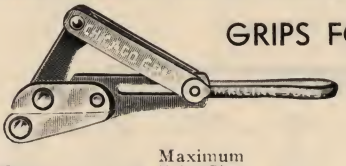


5253

Straps from first quality harness leather, back or center stock only. Rivets solid copper set with burrs. Drop forged roller snaps and buckles tested individually to 1500 lbs. galvanized finish. Straps may be lengthened or shortened by adjusting buckle. Reinforced both ends with stainless steel safety clips riveted through double thickness of the leather.

No.	Description	Wgt. Per Doz.	List Price Each
KL-5253	2"x5'8" "Klein-Lok" Snaps. Stainless Clips	40 lbs.	$22.80
5253	2"x5'8" Standard Snaps. Stainless Clips	40 lbs.	19.00

The 5253 series can be furnished to order with leather wear pad at buckle instead of stainless steel clip. Order as KL-5253-T or 5253-T.



GRIPS FOR BARE WIRES

(Solid and Strand)

No.	Maximum Wire Size	Minimum Wire Size	Approx. Max. Opening Ins.	Safe Load Lbs.	Size No.	List Pr. Ea.
1613-30	No. 6 B.&S. Solid (.162")	No. 12 B.&S. Solid (.081")	.22	1,500	1	$5.50
1613-30B	As above but bronze lined jaws.					8.00
1613-40	No. 0 B.&S. Strand (.373")	No. 10 B.&S. Solid (.102")	.44	2,250	2	8.00
1613-40B	As above but bronze lined jaws.					13.00
1613-50	No. 4/O B.&S. Strand (.552")	No. 6 B.&S. Solid (.162")	.62	4,000	3A	14.00
1613-50B	As above but bronze lined jaws.					23.00
1611-20	No. 4 B.&S. Weatherproof Solid (.391")	No. 10 B.&S. Weatherproof Solid (.250")	.50	2,200	6	8.00
1611-30	No. 1 B.&S. Weatherproof Solid (.500")	No. 6 B.&S. Weatherproof Solid (.313")	.56	3,500	4	10.00
1611-40	No. 2/0 B.&S. Weatherproof Strand (.672")	No. 1 B.&S. Weatherproof Solid (.500")	.75	3,750	5	15.50
1611-50	No. 4/0 B.&S. Weatherproof Strand (.860")	No. 2/0 B.&S. Weatherproof Strand (.672")	.94	3,750	5A	15.50

GRIPS FOR INSULATED WIRE

With "Saw Tooth" Upper Jaw

No.	Maximum Cable Size	Minimum Cable Size	Approx. Max. Opening Ins.	Safe Load Lbs.	List Price Each
1628-5B	With bronze lined jaws		.58	8,000	$19.50
	4/0 B.&S. 7 Strand Copper (.522")	No. 4 B.&S. Solid Copper (.204")			
	3/0 A.C.S.R. (.502)	No. 6 A.C.S.R. (.198")			
1628-5	As above but without bronze lining in jaws.				15.50

The above grip has been designed to provide in one tool a grip to handle almost every requirement on the usual job.

The jaws have been lengthened and the leverage increased. No.1628-5B has bronze-lined jaws to prevent slippage and consequent damage to galvanized finish or to copper or aluminum conductors.

For "all purposes" on any strand or solid wire up to ½" diameter with load up to 8,000 lbs. Weighs only 6 lbs. Forged from Alloy Steel—heat treated.

STRANDED CONDUCTORS

1626-39	336,000 C.M. A.C.S.R (.741")	3/0 A.C.S.R. (.502")	.75	3,750	$20.50
	400,000 C.M. Copper (.728")	4/0 Copper Strand (.522")			
1626-40	500,000 C.M. A.C.S.R. (.904")	397,500 CM. A.C.S.R. (.783")	.94	3,750	20.50
	600,000 CM. Copper (.891")	450,000 C.M. Copper (.770")			
*1626-40B	As above but bronze lined jaws.				26.50
*1662-AB	Furnished to order. Forged from Alloy Steel —Heat Treated Bronze lined jaws.				33.50
	336,000 C.M. A.C.S.R. (.741")	3/0 A.C.S.R. (.502")	.75	8,000	
	400,000 CM. Copper (.728")	4/0 Copper Strand (.522")			

* Bronze lining of jaws prevents slippage and consequent surface abrasion of cable.

GRIPS FOR MESSENGER AND GUY STRAND, HEAVY CABLES, WIRE ROPE, ETC.

1628-6	7/16" Galvanized Steel Strand (.438")	3/16" Galvanized Steel Strand (.188")	.50	8,000	$26.00
	No. 2/0 B.&S. Copper Strd. (.414")	No. 5 B.&S. Copper Solid (.182")			
1628-16	5/8" Galvanized Steel Strand (.625")	5/16" Galvanized Steel Strd. (.312")	.69	15,000	46.00
	No. 300,000 C.M. Copper Strand (.629")	No. 1/0 B.&S. Copper Solid (.325")			
	No. 4/0 A.C.S.R. (.563")	No. 2 A.C.S.R. (.316")			
1628-16B	As above but bronze lined jaws for stranded conductors				54.00

AMERICAN BEAUTY ELECTRIC SOLDERING IRONS



No.	Tip Size	Watts	List Pr. Each
3128	½"	60	$ 7.02
3138	⅜"	100	11.16
3158	⅝"	200	13.06
3178	⅞"	300	17.22
3198	1⅛"	500	22.32



AMERICAN BEAUTY TEMPERATURE REGULATING STAND

No.	List Price Each
475	$8.82



MELTING CUPS (LADLES)

No.	List Price Each
3638 for 3138	$2.10
3658 for 3158	3.50
3678 for 3178	4.83
3698 for 3198	7.00

COPPER TIPS FOR SOLDERING IRONS

3734 for S-76	$0.60
3728 for 3128	.60
3738 for 3138	.73
3758 for 3158	1.60
3778 for 3178	2.80
3798 for 3198	3.20

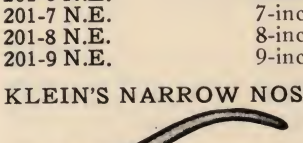
KLEIN'S SIDE CUTTING PLIERS*



N.E. Type (Streamlined) For Use on Bare and Insulated Wire

No.	Size	Av. Wt. Per Doz.	List Price Each
201-5 N.E.	5-inch	3 lbs.	$6.50
201-6 N.E.	6-inch	5¼ lbs.	7.00
201-7 N.E.	7-inch	7¼ lbs.	7.50
201-8 N.E.	8-inch	11¼ lbs.	9.00
201-9 N.E.	9-inch	13½ lbs.	9.50

KLEIN'S NARROW NOSED OBLIQUE CUTTING PLIER*



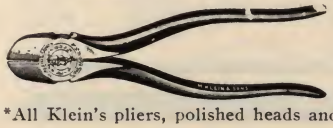
No.	Size	Wgt. Lbs. Per Doz.	List Price Each
202	5"	3¾	$5.70
202	6"	4	5.80

KLEIN'S LONG NOSE, SIDE CUTTING PLIER*



No.	Size	Wgt. Lbs. Per Doz.	List Price Each
203-5	5"	3¼	$6.00
203-6	6"	3¾	6.30
203-7	7"	4¼	6.60

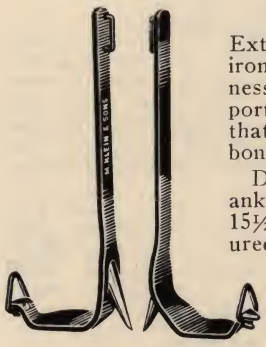
KLEIN'S HEAVY CUTTING OBLIQUE PLIER*



220-7	7"	6	$7.00
220-7SN		Heavy Duty	7.00

*All Klein's pliers, polished heads and handles tempered blue.

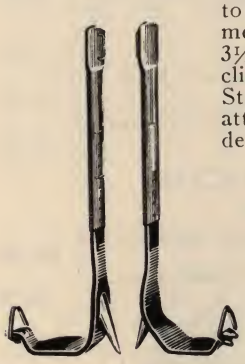
KLEIN'S "POLE MASTER" LINEMEN'S CLIMBERS



Extra wide stirrup, more arch support. Leg irons are flexible, tapered in width and thickness so that ankles and calves get better support without chafing. Have an offset shank that brings gaff in proper line with the leg bone to provide greater security and comfort.

Drop forged triangular strap rings at ankle. Stock sizes in fixed length pattern: 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to end of shank.

No. 1945 — Linemen's Climbers, wgt. per pair 3¼ lbs. List per Pair **$13.50**



Adjustable pattern climbers are adjustable to 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to top of slide. Gaffs 3½ inches long measured on the outside. All climbers have aluminum finish. When Ankle Straps No. 5301-16 or 5301-26 are desired attached at the factory, specify on your order. No extra charge.

No. 1945 ADJ — Adjustable Climbers, drop forged triangular strap rings at ankle. Wgt. per pair 3¼ lbs. List Price per Pair **17.00**

No. C-1945-ADJ—Complete with straps and pads. Wgt. 3¾ lbs. List Price per Pair **30.30**

Adjustable Climbers are available completely assembled with Straps and Pads. The following items are furnished with this assembly: No. 5301-9 Calf Straps, No. 5301-26 Ankle Straps and No. 8207 Climber Pads.



1939

KLEIN'S "STREAMLINED" CLIMBERS

The leg irons are flexible and tapered in width and thickness. The critical section from 3 inches above the gaff to half way across the stirrup designed for ample strength. The gaffs are slender type—preferred on treated ("Black Jack") poles. Gaffs 3½ inches long measured on the outside. A drop forged triangular ring carries the ankle strap. All climbers aluminum finish.

Stock sizes in fixed length pattern: 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to end of shank. Adjustable pattern climbers are adjustable to 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to top of slide.

When Ankle Straps No. 5301-16 or 5301-26 are desired attached at the factory, specify on your order. No extra charge.

No.	Wt. Per Pair	List Pr. Per Pair
1939—Riveted Strap Loop, Drop Forged Triangular Ring at Ankle	2½ lbs.	**$13.00**
1939-ADJ—Riveted Top Loop, Drop Forged Ring at Ankle, Adjustable	2⅞ lbs.	**17.00**
C-1939-ADJ—Complete with Straps and Pads	3½ lbs.	**30.30**

Adjustable Climbers are available completely assembled with Straps and Pads. The following items are furnished with this assembly: 5301-9 Calf Straps No. 5301-26 Ankle Straps and No. 8207 Climber Pads.

NO. 1901-M STANDARD CLIMBERS

Stock sizes in fixed length pattern: 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to end of shank. Adjustable pattern climbers are adjustable to 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from instep to top of slide. Special sizes in either fixed length or adjustable climbers made to order. Gaffs 3½ inches long measured on the outside. All climbers aluminum finish.

1901-M—Riveted Strap Loops ..... 3⅜ lbs. **$10.50**

1901-M-ADJ—Riveted Strap Loops ..... 3¾ lbs. **14.00**

C-1901-M-ADJ—Complete with Straps and Pads.. 4¼ lbs. **25.10**

Adjustable Climbers are available completely assembled with Straps and Pads. The following items are furnished with this assembly: No. 5301-9 Calf Straps, No. 5301-10 Ankle Straps and No. 8207 Climber Pads.

NOTE—In ordering fixed length climbers always mention the length of shank wanted. Measure from instep to the extreme end of leg irons which should come one in. below the knee joint for comfort. The position of the gaff hole in the leg iron makes it impracticable to interchange gaffs between linemen's climbers and tree climbers or vice versa.

TACKLES

KLEIN'S SELF-LUBRICATING HEAVY BLOCK TACKLES



1802

Consists of two special double sheave blocks. The spring guarded snap hooks and eye are drop forgings. The side plates are wrought. Pulleys are bronze bushed and self-lubricating. Galvanized finish. The rope used is best quality obtainable, spliced to eye of block with galvanized thimble.

No.	Description	Wt. Each	List Price Each
1802-40	Furnished with 30-ft. of ½" rope	15½ lbs.	$35.00
1802-50	As above with ⅝" rope	17¾ lbs.	40.20
1802-60	As above with ¾" rope	19½ lbs.	42.70

Other lengths of rope furnished to order.

SELF-LOCKING BLOCK TACKLE

Consists of light steel shell blocks galvanized, fitted with a snubbing hook to lock load in any position.

No.	Description	List Price Each
1802-30	25 ft. ⅜" rope and detachable anchor hook No. 258	$11.00
1802-30S	25 ft. ⅜" rope and detachable swivel anchor hook No. 259	11.70

SELF-LOCKING BLOCK TACKLE
With Guarded Snaps

H1802-30	25 ft. ⅜" rope and detachable anchor hook No. 258	$13.00
H1802-30S	25 ft. ⅜" rope and detachable swivel anchor hook No. 259	13.70

HAND LINE
With Drop Forged Snap Hook No. 443-A

These lines are designed for maximum safety and service. The rope is best quality obtainable. Spliced to eye of snap hook with galvanized steel thimble. The snap hook is drop forged and similar to those used on safety straps except that it has round eye. It opens to ¾ inch.

Can be furnished with any different length of rope to order.

1803-60	With 75 ft. ⅜" rope and No. 443-A Snap	$11.50
1803-120	As above with 120 ft. of rope and No. 443-A Snap	15.50
1804-60	With 75 ft. ⅜" rope and No. 470 Swivel Snap	11.70
1804-120	As above with 120 ft. of rope and No. 470 Swivel Snap	15.70

"XELA" ELECTRICIAN'S KNIFE
A Handy Combination for the Electrician


1550-2

The blades of this knife are made of high grade cutlery steel carefully tempered. The locking feature on the screw-driver blade is simple and of such construction that it does not wear out. It automatically locks the blade when open, yet a slight side pressure of the thumb releases the lock and permits the blade to be closed readily. Handle of cocobola—hard and durable.

No.	Description	Wt. Per Doz.	List Price Each
1550-2	Double Blade	2 lbs.	$3.50

SKINNING KNIFE
With Insulated Handle


1560-3

The "half hard" rubber handle is molded on securely and provides adequate insulation as well as a good generous grip. Shouldered out at the blade to prevent accidental cutting of glove or finger. The shape of the blade brings the point below the curve—a real safety feature. Back of blade ground flat for scraping. The hole in the handle is through the solid rubber. Forged from first quality cutlery steel individually tempered.

No.	Description	Wt. Per Doz.	List Price Each
1560-3	Length overall 8". Blade 3"	4¼ lbs.	$1.75

CABLE SHEATH SPLITTING KNIFE
Heavy Duty Type

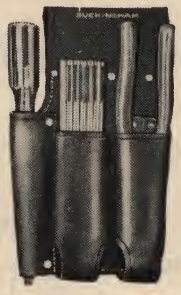

1515-1

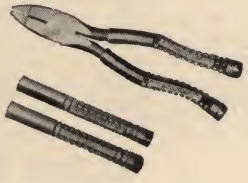
Blade tempered and ground to keen edge. Has strong leather handle, securely riveted. Temper blued finish. A sturdy knife that will stand up to hard usage. Length over all 8¾". Blade 4½".

1515-1		13 lbs.	$5.00

BUCKINGHAM TOOL POUCHES


4051


4023



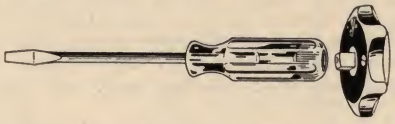
No.	Description	List Price Each
4051	Slip on plier	$2.20
4023	Slide on combination plier rule and screwdriver pouch	4.20

		List Price Pair
8006	6RG—for 6" pliers	$1.50
8007	7RG—for 7" pliers	1.50
8008	8RG—for 8" pliers	1.50

WRITE FOR COMPLETE CATALOG ON THE KLEIN LINE

A COMPLETE CATALOG ON BUCKINGHAM EQUIPMENT WILL BE MAILED ON REQUEST

PALM-GRIP RATCHET SCREW DRIVER SET



No. 4—Screw Driver Set. List price each **$6.50**

RATCHET SCREW DRIVER KIT



3-Way — Left - Right - Rigid
Unbreakable, shockproof, non-inflammable amber handle. Precision 1 piece cast ratchet with brass gear mechanism. Flanged aluminum screw chuck. Blades hardened, tempered and cross ground. In roll.

1 each cabinet. Blade size 1/8"x3¼", 3/16"x3½".
1 mechanic. Blade size ¼"x5¼".
1 each recessed head. Blade size (No. 1) 3/16"x4½", ¼"x4½".

No.	Description	Std. Pkg.	Wgt. Lbs.	List Price Per Set
3662	Ratchet	12	7	**$2.50**
3618	Not-ratchet	12	7	**2.00**

NO. 900 MEPHISTO ELECTRICIAN'S BITS



No.	900A	900B	900C	900D	900E	900F	900G
Size (Inches) ...	10/16	11/16	12/16	13/16	14/16	16/16	18/16
Wgt. Doz. Lbs...	2½	3	3¼	3¼	4	4½	6
List price each ..	**$2.00**	**$2.16**	**$2.30**	**$2.42**	**$2.54**	**$2.80**	**$3.40**

MEPHISTO CAR OR LINEMAN'S BITS



No.	Size	Lgth. Overall	Twist	List Price Each	No.	Size	Lgth. Overall	Twist	List Price Each
240A	10/16"	14"	10"	**$2.74**	**280A**	10/16"	18"	14"	**$4.00**
240B	11/16"	14"	10"	**3.10**	**280B**	11/16"	18"	14"	**4.20**
240C	12/16"	14"	10"	**3.40**	**280C**	12/16"	18"	14"	**4.40**

MEPHISTO FEELER BITS

No.	118A	118B	118C	118D
Size (Inches)	4/16x18	4/16x24	6/16x18	6/16x24
Wgt. Doz. Lbs.	2½	4	5½	7
List price each	**$3.10**	**$4.00**	**$3.60**	**$4.20**

MEPHISTO POWER ELECTRIC BIT

Manufactured for Electric Power Boring Machines



No.		Wt. Lbs. Ped Doz.	List Price Each
5PEA	12/16" Proper size for 3/8" Pipe	10	**$4.40**
5PEB	14/16" Proper size for ½" Pipe	11	**4.72**
5PEC	18/16" Proper size for ¾" Pipe	12	**5.40**
5PED	22/16" Proper size for 1" Pipe	12½	**6.60**
5PEE	24/16" Proper size for 1⅛" Pipe	13	**7.30**
5PEF	28/16" Proper size for 1¼" Pipe	13½	**8.30**
5PEG	32/16" Proper size for 1½" Pipe	14	**10.50**
5PEH	40/16" Proper size for 2" Pipe	15	**12.50**

NO. 63-T IRWIN SHORT CAR BITS

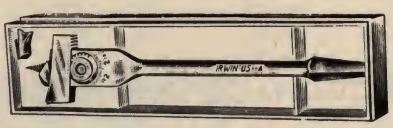


Size 16ths	Twist	Overall Lgth.	Wgt. Doz. Lbs.	List Price Per Doz.	Size 16ths	Twist	Overall Lgth.	Wgt. Doz. Lbs.	List Price Per Doz.
4	8"	12"	2	**$16.50**	10	8"	12"	4	**$20.00**
5	8"	12"	2	**16.50**	11	8"	12"	5	**23.00**
6	8"	12"	2	**16.50**	12	8"	12"	5	**23.00**
7	8"	12"	2	**16.50**	13	8"	12"	6	**27.00**
8	8"	12"	2	**16.50**	14	8"	12"	6	**27.00**
9	8"	12"	4	**20.00**	15	8"	12"	7	**30.00**
					16	8"	12"	7	**30.00**

NO. 65-T IRWIN LONG CAR BITS

Size 16ths	Twist	Overall Lgth.	Wgt. Doz. Lbs.	List Price Per Doz.	Size 16ths	Twist	Overall Lgth.	Wgt. Doz. Lbs.	List Price Per Doz.
4	12"	18"	3	**$18.00**	14	12"	18"	10	**$38.00**
5	12"	18"	3	**18.00**	15	12"	18"	10	**41.00**
6	12"	18"	4	**18.00**	16	12"	18"	11	**44.00**
7	12"	18"	4	**20.00**	17	12"	18"	12	**48.00**
8	12"	18"	5	**22.50**	18	12"	18"	13	**52.00**
9	12"	18"	6	**25.00**	19	12"	18"	13	**56.00**
10	12"	18"	7	**27.50**	20	12"	18"	14	**60.00**
11	12"	18"	7	**30.00**	22	12"	18"	15	**68.00**
12	12"	18"	8	**32.50**	24	12"	18"	17	**76.00**
13	12"	18"	9	**35.00**					

IRWIN MICRO-DIAL EXPANSIVE BITS



No. 21—Small size. Bores 5/8" to 1¾". Weight per dozen 4¼ lbs. List per dozen..... **$42.72**

No. 22—Large size. Bores 7/8" to 3". Weight per dozen 6½ lbs. List per dozen..... **$47.52**



MEPHISTO EXPANSIVE BITS

No. 2 Cutters	Std. Pkg.	Ctn.	Wt. Lbs. Per Doz.	List Price Each
87—Small, ½-1½"	1	3	4	**$4.84**
88—Large, 7/8-3"	1	3	8	**6.24**

CARBOLOY TIPPED DRILL BITS



Drill Diam.	Shank Diameter Round	Fluted	Overall Length Round and Fluted	List Price Each Round	Fluted
3/16"*	5/32"	....	3"	**$1.60**	....
¼"	3/16"	....	4"	**1.70**	....
5/16"	¼"	....	4"	**1.85**	....
⅜"	5/16"	....	4"	**2.05**	....
7/16"	⅜"	....	6"	**2.40**	....
½"	⅜"	....	6"	**2.60**	....
9/16"	7/16"	....	6"	**2.90**	....
5/8"	½"	....	6"	**3.15**	....
¾"	½"	....	6"	**4.10**	....
⅞"	½"	....	6"	**4.85**	....
1"	½"	....	6"	**6.95**	....
1⅛"*	....	½"	6"	....	**$8.70**
1¼"*	....	½"	10"	....	**10.50**
1½"*	....	½"	10"	....	**12.90**

*Sizes 3/16", 1⅛", 1¼" and 1½" furnished without dust ejector.

T & B CABLE CUTTERS



Ideal for plant electricians, maintenance men, electrical contractors, utility crews and electrical distributors. Cuts aluminum cable up to 500 MCM, bare or insulated up to 1½" O.D. No jagged ridges across center, without burring of strands or deformation of cable—will slip into close-fitting terminal barrels.

Note—Should not be used to cut steel cable, ACSR, nor copper-weld.

Doesn't flatten the cable it cuts. Especially suitable for preparing cable ends for insertion into T & B Method or Tite-Binding fittings—no filing, pounding or trimming needed.

Specifications: Tubular handles, overall length 23¼", cutting blades: forged, hardened steel, ⅛" overlap for repeated sharpening opening handles to admit 1½" dia. insulation, 37¼", 130°; to cut 500 **MCM** bare cable 19¼", 51°. Wgt. 5½ lbs.

List price each.....**$28.00**

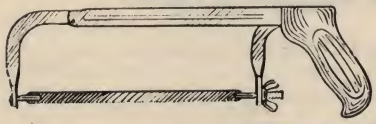
MEPHISTO PLUMBERS' FLOOR CHISELS

HAMMERED STEEL



No.	Size	Wt. Lbs. Per Doz.	List Price Each
021	2½" x 12"	18	$2.86
022	3" x 12"	19	3.00
023	2½" x 18"	27	3.40
024	3" x 18"	28	3.64

AUSTIN HACK SAW FRAMES

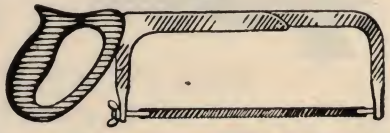


No. 132



No. 133

No. 134



Frames nickel-plated, one piece molded handles. Nos. 132, 133 pistol grip handles—polished, buffed nickel frames. No. 134 rubber grip.

No.	Frame	With Blade	Adjustable	Std. Pkg.	Wt. Ea.	List Pr. Ea.
132	3"	8"	8"-10"-12"	12	1	$1.20
133	3⅜"	10"	8"-10"-12"	12	1½	3.80
134	3⅜"	10"	8"-10"-12"	12	1½	5.50

MEPHISTO HACK SAW BLADES



No.			Wt. Lbs. Per Gross	List Price Per Doz.
63A	8"	18 or 24 or 32 teeth	4	$1.64
63B	10"	18 or 24 or 32 teeth	5½	2.00
63C	12"	18 or 24 or 32 teeth	6½	2.40

MEPHISTO COMPASS SAW



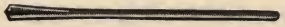
No.	Size	Description	Wt. Lbs. Per Doz.	List Price Each
64CA	12"	Complete with handle	6¼	$3.00
64CB	14"	Complete with handle	6¾	3.10
64BA	12"	Compass saw blade	2¼	2.00
64BB	14"	Compass saw blade	2¾	2.10
		Handle only	4	1.00



NO. 35 BIT EXTENSION

For 11/16 and 13/16" bits. One-piece socket and shank construction—makes it extra strong. Chuck shell extra heavy tubing. Drop-forged steel jaws seated in socket hold bits securely and in alignment.

No.	Length	Weight	List Pr. Ea.
35	18"	13 oz.	$3.40



MEPHISTO STAR DRILLS

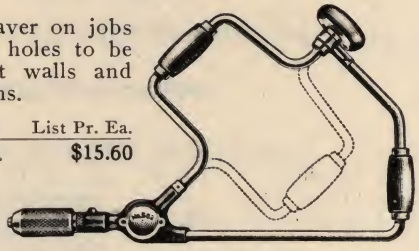
HAMMERED STEEL

No.	Size	Wt. Lbs. Per Doz.	List Price Each	No.	Size	Wt. Lbs. Per Doz.	List Price Each
P137A	¼" x 12"	2¼	$0.86	P137F	⅝" x 12"	7	$1.26
P137B	5/16" x 12"	2½	.86	P137G	¾" x 12"	9	1.50
P137C	⅜" x 12"	3¼	.86	P137H	⅞" x 12"	13½	1.70
P137D	7/16" x 12"	3½	.95	P137I	1" x 12"	17	1.90
P137E	½" x 12"	5	1.04				

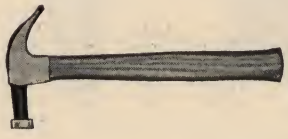
NO. 502 CORNER BRACE

A great time and labor saver on jobs where there are a lot of holes to be bored in corners, against walls and beams and similar locations.

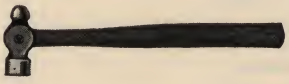
No.	Sweep	Weight	List Pr. Ea.
502	10"	4⅝ lbs.	$15.60



ELECTRICIANS' HAMMERS



No.	Wt. Lbs. Per Doz.	List Price Each
44E	19	$5.20



MEPHISTO BALL PEIN HAMMERS

No.	44BA	44BB	44BC	44BD	44BE	44BF
Size	8 oz.	12 oz.	16 oz.	20 oz.	24 oz.	32 oz.
Wt. Lbs. Per Doz.	8	13	17	21	24	32
List Price Each	$3.60	$3.60	$4.00	$4.20	$4.40	$4.70



PREPO TORCH

STANDARD MODEL

TA-2 PREPO Torch—Package includes one **Prepo** Standard Model Torch plus one container Prepo fuel. Shipping case (3 boxes) weight 6 pounds.

List price each.....**$7.95**

CA-1—Fuel list price per can..... 1.00

CLAYTON & LAMBERT GASOLINE TORCHES

Tanks—Drawn from heavy gauge cartridge brass, strongly reinforced with interlocking fittings. **Burner**—Cast from bronze (special formula) to resist extreme heat. Valve handle wheels, heat resisting bakelite, cool on hands. Hooks detachable. **Pumps**—Brass, maintain proper working pressure without undue pumping.



158A

No. 144A—Capacity 1 quart with a medium sized mechanics grade burner. Blunt control needle orifice enlargement impossible. Removable jet block, detachable cleaner pin. Produces intense, steady blue flame. Flame regulated from high to low. Generator protected by windshield. Automatic pump with lock-down plunger. Weight 4¾ lbs.

List price each.....$13.50

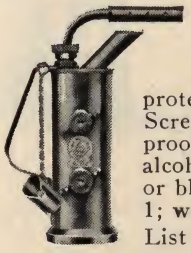
No. 158A—Same general specifications as No. 144A. For in and outdoor use. Back-flow superheating vein which generates an intensely hot, well controlled flame 6½" long. Capacity, 1 qt. Wt. 4¾ lbs.

List price each 12.70

No. 700A—Same general specifications as No. 144A except 1 pint capacity, without windshield. Back flow generator, tapered burner tube closed at back. Produces an intensely hot, good sized blue flame. Wt. 3¾ lbs.

List price each..... 11.40

LENK ALCOHOL SELF-GENERATING BLOTORCH



350

No. 108—Double barrel, nickel plated. Blows itself. Operates on denatured or commercial alcohol. Solid base, leakproof. Jet cap to protect fine orifice. Prevents loss of fuel. Screw top and bottom, easy to load. Rust-proof wicks in power chamber, feeds alcohol uniformly. No pumping, priming or blowing. Size 5⅞"x2⅛"x1". Std. pkg. 1; wt. doz., 4½ lbs.

List price each.....$2.00



108

No. 350—Duo-duty, double burner. One for needle point flame; add attachment for heavy, intense flame. For fusing large terminal lugs, heavy duty soldering jobs. Cleaning pin in top. Filler plug always handy. Full grip handle, always cool. Foolproof construction. No adjustments. Jet cap to protect fine orifice. Prevents loss of fuel. Size 7½"x5½"x2¼". Wt. doz., 11 lbs.

List price each 5.50



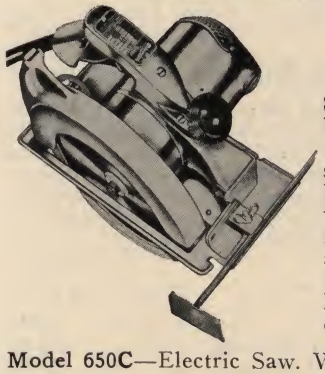
MODEL H-856X ELECTRIC HAMMER

A small lightweight portable electric hammer for electricians, plumbers, contractors, sign men, stone cutters. Range: 3/16" to ¾". Operating diam. 1⅛". Blows per minute, approx. 3,000.

H-856X—Elect. Hammer with Steel Carrying Case. Three-wire heavy duty grounded cord, star drill chuck, drift key, ½" star drill, tool returning spring, ½ pound high temperature grease. Wt. 11½ lbs.

List price each $196.00

MODEL 650C MITERING SAW

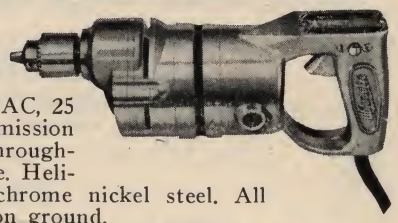


ELECTRIC—HEAVY DUTY WITH CARRYING CASE

Specifications—Full ball and roller bearings, 1 horsepower, universal 115 volt AC or DC motor—rigid steel shoe, replaceable—sawdust blower — telescoping guard — full view line sight—correct balance—full 2 5/32" cut at 90°—1¾" bevel cut at 45°. No load speed: 4800 RPM. Cuts through dressed 2 x 4 at 45°. Depth gauge and rip fence standard equipment.

Model 650C—Electric Saw. Wt. 12¼ lbs. List pr. ea....$144.00

NO. S114 STANDARD HEAVY DUTY DRILL

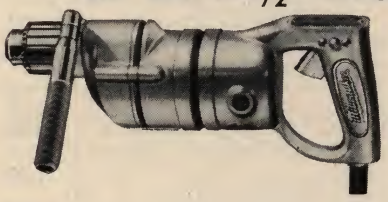


No. S114—¼" Capacity in steel, ½" in wood. Chuck speed—no load, 1900 RPM. Full load, 1100 RPM. Motor, universal for DC or AC, 25 to 60 cycles, 115 volts. Transmission—ball and roller bearings throughout. Ball bearings on spindle. Helical gears of heat treated chrome nickel steel. All shafts hardened and precision ground.

NO. HS114 HIGH SPEED HEAVY DUTY DRILL

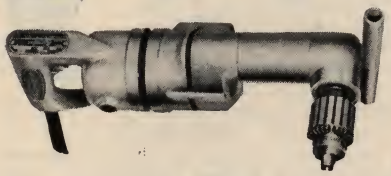
Same as No. S114 except: chuck speed, no load 2500 RPM; full load 1450 RPM. Transmission: ball bearing throughout. Alloy steel shafts, hardened and precision ground helical stub tooth gears of chrome nickel steel.

NO. BF312—½" SPECIAL DUTY DRILL



Specifications — Capacity: ½" in steel, 1 9/16" in wood. Chuck speed: no load 560 RPM. Full load 340 RPM. Motor: universal DC or AC, 25 to 60 cycles, 115 volts. Transmission: ball and roller bearings throughout. Helical stub tooth gears, carefully heat treated. Double gear reduction gives proper drilling speed.

No.	Cap.	RPM on Load	Length Overall	Wgt. Lbs.	List Pr. Ea.
S114	¼"	1100	10¾"	5¼	**$66.00**
HS114	¼"	1450	10¾"	5¼	**78.00**
BF312	½"	340	12¼"	6¼	**88.00**



NO. S412RAD RIGHT ANGLE DRILL WITH STEEL CARRYING CASE

Capacity: ½" steel, 1¾" wood. Chuck speed: 450 RPM no load, 300 RPM full load. Side handle: 360° adjustment or can be detached. Motor: universal for DC or AC, 25 to 60 cycles, 115 volts. Transmission: ball and roller bearing throughout. Triple gear reduction for high torque. Ideal for hole saws. Length overall, 12¼". Weight, 6½ lbs.

No. S412RAD Right Angle Drill. List price each.....$140.00

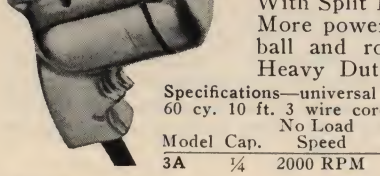
Extra for carrying case. List price each..... 11.00



TU-SPEED RIGHT ANGLE DRIVE ATTACHMENT NO. RAD2

Used with the S412 for drilling large holes in wood through joists, or for drilling and polishing marble and stone. Extends length of drill only 2⅝". Allows drilling between joists on 12" centers. Shafts run on ball and roller bearings. Attaches to S412 and BF312.

No. RADA Angle Drive Attachment. List price each.....$49.00

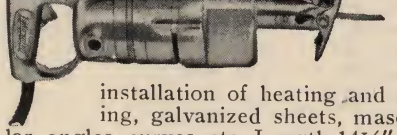


THE NEW HOLE-SHOOTER

With Split Design—for easy maintenance. More power than other pistol drills. Full ball and roller bearing construction. A Heavy Duty Tool.

Specifications—universal motor, 115 V., AC or DC., 25 to 60 cy. 10 ft. 3 wire cord.

Model	Cap.	No Load Speed	Load Speed	Lgth.	Wgt. Lbs.	List Pr. Ea.
3A	¼	2000 RPM	1200 RPM	7¾"	3¾"	**$84.00**



"SAWZALL"

Heavy duty, all purpose reciprocating saw. Ball and roller bearing equipped. Cuts clean holes fast for installation of heating and ventilating ducts, wood siding, galvanized sheets, masonite, etc. Any shape, circular, angles, curves, etc. Length 14¼", length of stroke ¾", weight 6¾ lbs.

Model 414—With case and assmt. of blades. List price ea. **$157.00**

IDEAL CABLE RIPPER AND WIRE GAUGE



For use on nonmetallic sheathed duplex cable or lead-covered cable where outside diameter is 5/8 inches or smaller. Overall length 3¾ inches.

45-018—Ripper and wire gauge.

List price each **$0.86**

IDEAL FUSE PULLERS

SAFE-T-GRIP



Ideal Safe-T-Grip Fuse Pullers have notched edges which give a sure grip, eliminating any possibility of slipping. Eliminates the danger of pulling and replacing cartridge fuses by hand and the bending of fuse clips through improper removal. Also adapted for adjusting loose cutout clips, handling electrical parts, etc.

No.	Size	Description	List Price Each
34-001	—Midget	For small fuses, ¼" to ½" in diameter....	**$0.78**
34-002	—Pocket	1 to 200-Amp., 250-Volt. and 1 to 100-Amp., 600-Volt	**1.96**
34-003	—Giant	100 to 600-Amp., 250-Volt and 60 to 400-Amp., 600-Volt	**5.22**

IDEAL FUSE CLIP CLAMPS



Ferrule Type



Knife Type

Eliminate unnecessary watt loss, fuse and fuse clip replacement. Assure proper alignment and positive contact between fuse and clips. Heavy cast iron clamping ring exerts extreme pressure against the clip. Ring is forced over the outside of the strong, reinforced jaws as the knurled plastic knob is turned. All parts are cadmium plated. Are extremely adaptable; they grip all makes of clips from the widest to the narrowest sizes—are particularly useful on heavily loaded switches or fuse clips where replacement is frequent.

No.	Amps.	Volts	Std. Pkg.	List Price Each
30-001 Ferrule	30	250	12	**$0.84**
32-002 Ferrule	30	600	12	**1.10**
32-002 Ferrule	60	250	12	**1.10**
32-003 Ferrule	60	600	6	**1.48**
32-004 Knife	100	250	6	**1.36**
32-004 Knife	100	600	6	**1.36**
32-005 Knife	200	250	6	**2.06**
32-005 Knife	200	600	6	**2.06**
***32-006** Knife	400	250	6	**2.80**
***32-006** Knife	400	600	6	**2.80**
32-007 Knife	600	250	6	**4.02**
32-007 Knife	600	600	6	**4.02**

*Wide jaws of No. 32-006 Fuse Clip Clamp permits clamping split clips.

IDEAL AUTOMATIC EZ WIRE STRIPPER

E-Z "AUTOMATIC" MODEL—Strips both stranded and solid wire—fast and clean—eliminates wire waste, prevents crushing of stranded wire. Works like a plier. Clamps wire, cuts insulation, strips it, lever automatically stops return of arms until wire is removed. Cutter edges are shielded, stafeguarding hand.



E-Z STANDARD MODEL—Same as "E-Z" Automatic model, except that it does not have a lever to stop return of arms after stripping. Especially designed for stripping solid wire, it may also be used on stranded wire.

Automatic No.	Standard No.	Wire Ga. No.	No. of Holes
45-029	**45-024**	Nos. 20 to 30	6 holes
45-030	**45-025**	Nos. 12 to 18	3 holes
45-031	**45-026**	Nos. 10 to 16	3 holes
45-032	**45-027**	Nos. 8 to 14	2 holes
45-046	**45-045**	Nos. 16 to 22	4 holes
***45-078**		Nos. 10 to 22	6 holes

*No cutting edge.

Automatic Model, List price each **$10.50**
Standard Model, List price each **8.80**

IDEAL FISH TAPE REELS AND PULLERS



Invaluable for building construction and industrial work. Reel serves as handle to give firm grip in pulling on fish tape, eliminating special pullers, or dangerous bare-hand pulling.

Saves 50 per cent of the workman's time. Keeps tape fully protected. Tape is locked in reel when not in use and cannot spring loose.

No.	Length	Size	List Price Each
31-007	50 ft.	⅛" x .045" (3/64")	**$ 5.10**
31-008	50 ft.	⅛" x .060" (1/16")	**7.50**
31-009	100 ft.	⅛" x .060" (1/16")	**12.80**
31-011	100 ft.	¼" x .060" (1/16")	**15.40**
31-016	200 ft.	⅛" x .060" (1/16")	**18.90**

IDEAL FISH TAPES



Highest grade tempered spring steel used. No curling. Flexible, easy to use on long runs of conduit having several bends.

No.	Length and Size of Tape	List Price Each
31-004	50 ft. x ⅛ x .060 (1/16")	**$2.60**
31-036	100 ft. x ⅛ x .060 (1/16")	**5.00**
31-038	200 ft. x ⅛ x .060 (1/16")	**9.90**
31-050	100 ft. x ¼ x .060 (1/16")	**8.00**
31-052	200 ft. x ¼ x .060 (1/16")	**16.00**
31-078	50 ft. x ⅛ x .045 (3/64")	**2.30**
31-079	100 ft. x ⅛ x .045 (3/64")	**4.30**

IDEAL WIRE PULLING LUBRICANT



Makes wire pulling easier and saves time. Protects insulation against breaks and strains. It can be used on rubber, lead or plastic covered wire or cable. The lubricant may be applied by hand or brush. Wire or cable actually "rides" on a film of Lubricant which dries to a fine powder. Ideal for use when adding extra wires in a conduit already containing wires.

No.	Size	Std. Pkg.		List Price Each
31-086	Gallon	4	Per Gal.	**$4.40**
31-087	Quart	12	Per Qt.	**1.76**

KELLEMS PULLING GRIPS



No.	For Cable Dia. In.	Weight	List Pr. Each	No.	For Cable Dia. In.	Weight	List Pr. Each
		24 INCHES LONG					
E100	¾ to 1	1 lb. 7 oz.	$5.20	E104	2½ to 3	4 lb.	$7.70
E101	1 to 1½	1 lb. 10 oz.	5.80	E105	3 to 3½	4 lb. 4 oz.	8.25
E102	1½ to 2	2 lb. 6 oz.	6.45	E106	3½ to 4	4 lb. 8 oz.	9.00
E103	2 to 2½	2 lb. 12 oz.	7.10				
		36 INCHES LONG					
E107	1 to 1½	2 lb. 8 oz.	$7.70	E110	2½ to 3	5 lb.	$9.60
E108	1½ to 2	3 lb. 2 oz.	8.25	E111	3 to 3½	5 lb. 4 oz.	10.25
E109	2 to 2½	3 lb. 6 oz.	9.00	E112	3½ to 4	5 lb. 6 oz.	10.85
		48 INCHES LONG					
E113	1 to 1½	3 lb. 6 oz.	$9.60	E116	2½ to 3	6 lb.	$11.50
E114	1½ to 2	3 lb. 14 oz.	10.25	E117	3 to 3½	6 lb. 4 oz.	12.15
E115	2 to 2½	4 lb. 2 oz.	10.85	E118	3½ to 4	6 lb. 8 oz.	12.75

WIRE AND ROPE MEASURING MACHINE



Desirable for measuring various sizes of wire, cordage and should be used by dealers and contractors handling electric wire. Will save time and money. The wire passes between two self-adjusting rollers taking up to ¾-inch, and will accurately measure small or large sizes. The pointers are movable and readily adjusted to zero.

Model	Description	List Price Each
A	Meter only	**$ 51.00**
FSA	Reel and meter.....	**96.00**
FS2R	Combination reel only without meter.....	**146.00**
FS2RA	Combination without spool bracket	**197.00**

NYE TUBE CUTTER WITH ROLLERS



No.	Tubing Capacity	Wt. Lbs.	List Price Each
N10C	5/16" to 7/8" O.D.	½	$4.90
N25C	½" to 2⅛" O.D.	2½	9.80

NYE BIT BRACE REAMER

Spiral Flute



Made with tapered shank to fit any standard bit brace. Spiral flutes give a shearing action, assuring operator a clean and satisfactory job.

No.	Size	Wt. Lbs.	List Price Each
N42	⅛" to 1"	¾	$4.00
N42½	⅛" to 1¼"	¾	5.00
N44	¼" to 2"	1¼	9.50



NYE SELF-LOCKING VISE

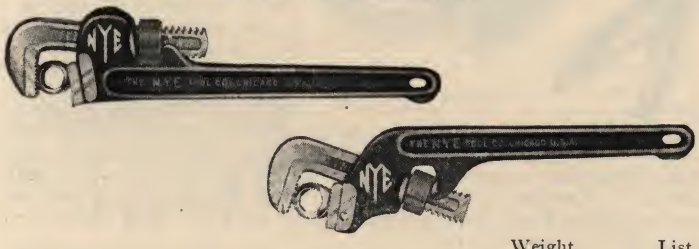
No.	Size	List Price Each
71	⅛"-2½"	$19.00

NYE CHAIN VISE



No.	Size	List Price Each
61	⅛"-2½"	$11.80

NYE PIPE WRENCHES



Size	Capacity Inches	Weight Each Lbs.	List Price Each
6" Straight or Offset	¾	½	$1.90
8" Straight or Offset	1	¾	2.20
10" Straight or Offset	1½	1¾	2.85
14" Straight or Offset	2	3½	3.85
18" Straight or Offset	2½	5¼	5.50
24" Straight or Offset	3	8¾	9.50
36" Straight or Offset	4½	16¼	20.00
48" Straight Only	6	28	30.00
60" Straight Only	8	43¼	45.00

NYE PIPE THREADING OIL

Dark or Clear with Sulphur base. Unless otherwise specified, Dark oil is furnished.

No.	Quantity	Apr. Shp. Wt. Lbs.	List Price Per Gal.
NO-1	1 Gallon Cans	10	$2.54
NO-5	5 Gallon Cans	45	2.16
NO-55	55 Gallon Drums	470	1.88

GREENLEE KNOCKOUT PUNCHES



For quick cutting of smooth, round holes in metal, hard rubber, or bakelite up to ⅛" thick.

No.		Wt. Lbs.	List Price Per Set
735	Knockout Punch Set complete	2½	$20.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV121	½" Conduit Punch	⅞"	1/16	$2.50
AV122	½" Conduit Die	⅞"	1/16	1.30
AV322	⅜" x 1½" Drive Screw		1/16	.50
AV123	¾" Conduit Punch	1-3/32"	⅛	2.90
AV124	¾" Conduit Die	1-3/32"	1/16	1.60
AV125	1" Conduit Punch	1-11/32"	1/16	3.30
AV126	1" Conduit Die	1-11/32"	⅜	1.90
AV127	1¼" Conduit Punch	1 11/16"	1/16	3.80
AV128	1¼" Conduit Die	1 11/16"	1/16	2.10
AV249	¾" x 2¼" Drive Screw		⅜	.70

No.		Wt. Lbs.	List Price Per Set
737	Knockout Punch Set complete	3½	$20.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV439	1½" Conduit Punch	1 13/16"	½	$4.60
AV440	1½" Conduit Die	1 13/16"	⅝	4.00
AV441	2" Conduit Punch	2⅜"	⅞	6.40
AV442	2" Conduit Die	2⅜"	1	5.00
AV304	¾" x 3" Drive Screw		1/16	1.00

No.		Wt. Lbs.	List Price Per Set
738	Knockout Punch Set complete	4½	$28.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV1429	2½" Conduit Punch	2⅝"	1⅜	$10.80
AV1430	2½" Conduit Die	2⅞"	1½	10.00
AV1433	Drive Nut		½	2.70
AV1434	¾" x 5⅜" Double Diameter Drive Screw (with 1" dia. thd. section for Drive Nut)		⅞	5.50

No.		Wt. Lbs.	List Price Per Set
739	Knockout Punch Set complete	6½	$38.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV1431	3" Conduit Punch	3½"	2½	$16.00
AV1432	3" Conduit Die	3½"	2½	15.00
AV1433	Drive Nut		½	2.70
AV1434	¾" x 5⅜" Double Diameter Drive Screw (with 1" dia. thd. section for Drive Nut)		⅞	5.50

No.		Wt. Lbs.	List Price Per Set
741	Knockout Punch Set complete	10⅜	$78.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV2981	3½" Conduit Die	4"	3¼	$28.00
AV2982	3½" Conduit Punch	4"	3	36.00
AV3026	1⅛" x 6¾" Double Dia. Drive Screw (with 1⅜" dia. thd. section for Drive Nut		2¼	12.00
AV3036	Drive Nut		1¼	4.00
AV3037	Bushing		⅝	4.50

No.		Wt. Lbs.	List Price Per Set
742	Knockout Punch Set complete	12⅛	$96.00

No.	Description	Hole Size	Wt. Lbs.	List Pr. Each
AV2983	4" Conduit Die	4½"	3½	$36.00
AV2984	4" Conduit Punch	4½"	4½	48.00
AV3026	1⅛" x 6¾" Double Dia. Drive Screw (with 1⅜" dia. thd. section for Drive Nut)		2¼	12.00
AV3036	Drive Nut		1¼	4.00
AV3037	Bushing		⅝	4.50

GREENLEE HYDRAULIC BENDER

With a Greenlee one man quickly gets the desired bend by pumping the handle for powerful hydraulic force. Bends are smooth, accurate—no kinking or damage to conduit or pipe.

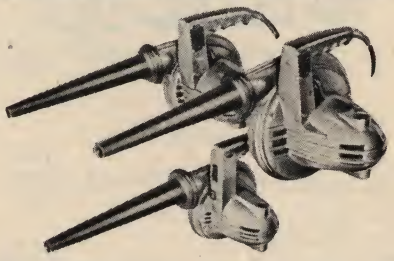
No. 770



No.	Description	Wt. Lbs.	List Price Each
No. 770	Complete for 1¼ to 3-inch	205	$340.00
No. 770	Complete for ½ to 3-inch	215	364.00
No. 775	Complete for 3 to 5-inch	375	470.00
No. 775	Attachments only for 1¼ to 2½-inch	60	74.00
No. 775	Complete for 1¼ to 5-inch	435	544.00
No. 775	Attachments only for 5-inch (for converting No. 775 Benders, serial No. 21,399 and under, to 5-inch)	85	132.00
No. 770-T	Thin-Wall Conduit Bender Complete for 1¼ to 2-inch	266	460.00

IDEAL HAND TYPE CLEANERS

Three Models—Heavy, Medium, and Light Duty



Cleaner will do a better job, faster, at less cost. These light weight, perfectly balanced cleaners handle a wide range of work. Blows, vacuums and sprays. Can be operated continuously at peak efficiency and with amazing economy.

Delivers air at higher velocity (Heavy Duty Model—26,500 feet per minute) yet, because it blows only dry air at low pressure the Ideal Cleaner does not harm even delicate equipment. Blower Nozzle is furnished as standard with Ideal Hand Type Cleaners.

Housing made of light weight aluminum . . . Fan chamber points away from operator, prevents clothing catching in the intake . . . Thumb switch on handle for finger-tip control . . . Stronger fan, curved blade design; adds air efficiency and smoother operation . . . Larger motor brushes for longer, better service . . . Scroll around motor cooling fan directs air stream where it is most effective—prevents overheating.

SPECIFICATIONS

	Heavy Duty	Medium Duty	Light Duty
*Horsepower	1 1/3	2/3	2/5
†Water Lift, inches	52	36	26
†Suction Air Volume (1½" hose), cubic ft. per min.	195	135	95
Blowing Air Velocity (at nozzle), ft. per min.	26,500	20,700	16,500
Revolutions per minute	11,350	12,600	13,600
Diameter Blower Nozzle, inches	3/4	3/4	3/4
Overall Size with Nozzle, inches	21x12x9	19x9x7	18x9x6½

*Motor is Universal type. No lubrication needed; ball bearings permanently sealed. Furnished with 20 ft. cord and plug.
†The High Cleaning Efficiency is the result of the proper combination of water lift and air volume.

	List Price Each
Heavy Duty	
No. 22-110....115 v., AC/DC	$246.20
No. 22-111....230 v., AC/DC	251.30
No. 22-112....250 v., AC/DC	251.30
Medium Duty	
No. 22-113....115 v., AC/DC	195.70
No. 22-114....230 v., AC/DC	201.00
No. 22-115....250 v., AC/DC	201.00
Light Duty	
No. 22-163....115 v., AC/DC	117.20
No. 22-164....230 v., AC/DC	122.60



STANDARD ATTACHMENTS

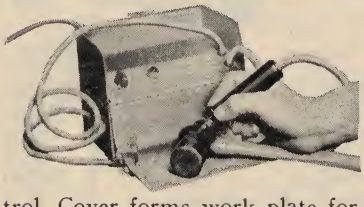
For Use with Hand Type Cleaners

Dust-proof bag, hose connection (inlet side), flexible hose (4 ft. x 1½ inches), metal nozzle (5 inch) and brush, flat fibre nozzle and shoulder strap.

No. 22-109—Std. Attachment Set. List price each **$39.00**

IDEAL PORTABLE ELECTRIC ETCHER

Marks Anything Made of Iron, Steel or Their Alloys



For marking tools, parts and material. Depth of mark is governed by speed of movement and by heat switch, leaving a permanent mark. Four etching heats—120, 240, 420 and 700 watts—give a wide range of marking control. Cover forms work plate for small tools and parts. Unit includes 4 oz. etching tool, ground clamp with 4' leads size, 8⅝"x 5⅜"x7. Shipping weight 19 lbs.

No. 11-081—Universal, 115 v., 50-60 cy. List price each....**$107.70**

IDEAL BLO-R-VAC TANK CLEANERS

Tank Cleaner, Hand Cleaner and Blower All in One



For industrial and commercial establishments, theatres and institutions. Does the work of two or more ordinary Cleaners. Used as a Tank Cleaner, it picks up dirt, dust and metal particles. Quickly removes water from floors after scrubbing and it is especially valuable in scrap collection. The power unit is a complete unit in itself. Removed from the tank it becomes a powerful, hand-type vacuum cleaner or blower.

Of rugged steel construction, tank has smooth finish that is easy to keep clean. Four easy-rolling wheels combine with light over-all weight to make the IDEAL BLO-R-VAC easy to handle and maneuver.

IDEAL BLO-R-VAC Cleaners are available in two models: Heavy Duty (1⅓ H.P.) and Medium Duty (⅔ H.P.). Some of the more important specifications are given below.

SPECIFICATIONS

Power	H.D. 1⅓ H.P.	M.D. ⅔ H.P
Static Pressure "Waterlift"	52"	32"
Air Volume (1½" Hose)	187 CFM	127 CFM
*Tank Size	10-12 Gal.	10-12 Gal.
Bag Area	891 Sq. In.	891 Sq. In.
Width (Maximum)	20"	20"
Length (Maximum) over Bag	36"	35"
Height	33"	31¼"
Cord Length	20 Feet	20 Feet

*Note: 12 gallon size standard. Due to mobilization emergency it may sometimes be necessary to substitute 10 gal. size.

No.	Volts AC or DC	List Price Each	No.	Volts AC or DC	List Price Each
22-200	115V	**$591.30**	32-213	115	**$332.00**
22-201	230V	**597.30**	22-214	230	**337.50**
22-202	250V	**597.30**	22-215	250	**337.50**

IDEAL THERMO-GRIP SOLDERING TOOL

FASTER — SAFER — EASIER



12-106 With Plier

Adaptable to practically all soldering jobs — closely grouped parts, difficult positions, cramped spaces, inflammable surroundings. Heats instantly and concentrates heat only on the part to be soldered. Eliminates fire hazard and danger of melting nearby joints or burning other parts. Does not oxidize the tin in solder, weaken the solder, or discolor the finished job. Reaches soldering temperature in less than one minute. Handy thumb-switch permits close heat control for better soldering. All parts are fully insulated. Current is reduced to harmless low voltage. Operates on resistance heating principle. Can be used for long periods of time without overheating.

115 volts, 50-60 Cy. Secondary voltage 6.5 to 6.8 volts. Secondary leads are extra—flexible, heavy duty, asbestos covered.

No. 12-106—Soldering Seat. List price each **$86.90**

IDEAL STANDARD MODEL ELECTRICAL ETCHER



For Medium Size Work

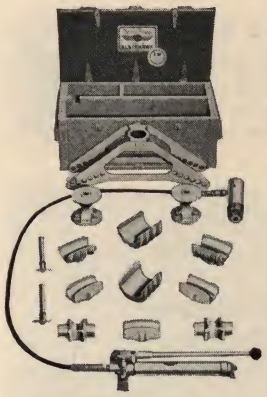
Suited for lighter applications. Three heats—140, 205, and 375 watts — provide convenient adjustment for control of marking. Work plate and etching tool have 5' leads. When etching large objects, a ground clamp is substituted for the work plate.

SPECIFICATIONS

Includes four ounce etching tool with heat-resisting handle, and special alloy point; 4"x7" work plate; three heat power unit and primary cord with heat changing switch.

No. 11-009—115 volt, 50-60 cycle. List price each **$65.40**

BLACKHAWK HYDRAULIC BENDERS



S-36—20 TON ASSORTMENT

Bends rigid conduit and standard pipe of 1¼, 1½, 2, 2½, 3, 3½ and 4" diameters. Includes S-78 hydraulic unit and assortment of attachments. Porto-Power's all-directional action gives you advantages not found in conventional benders. Also connects to electric P-182 powerhouse.

No. S-36—20 ton assortment.
List price each **$536.00**

S-30A—10 TON ASSORTMENT

Handles rigid conduit and pipe of 1, 1¼, 1½ and 2" diameters. Includes S-71 hydraulic unit and assortment of attachments. A low-cost, practical set for the average contractor or electrician. Also works with P-182 for electric operation.

No. S-30A—10-ton assortment. List price each.....**$251.40**

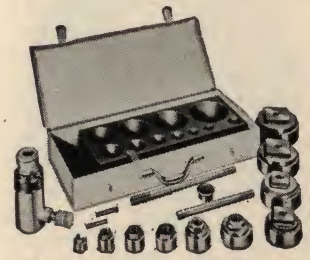
S-34 KIT

For thinwall 1¼" to 2" includes S-71 (10-ton capacity) hydraulic unit and assortment of attachments (which have been specially designed to prevent conduit flattening and buckling)—plus wooden chest.

No. S-34—Kit. List price each **$424.70**

HYDRAULIC KNOCKOUT PUNCHES

SB-40 DELUX KIT



Punches 6 openings for conduit sizes of ½, ¾, 1, 1¼, 1½ and 2". Contents include the RC-426 (10-ton capacity) hollow pull-ram, one each of six knockout punches, 5 attachments, and a compact, portable metal case with hasps for locking. The RC-426 hollow pull-ram attaches to the P-76 pump and Z-913 hose which serves **all** Blackhawk Pipe Benders. See note below.

No. SB-40—Kit. List price each **$195.20**

IMPORTANT NOTICE: The Porto-Power P-76 hand-operated pump and Z-913 Hose (with ZH-604 Spee-D-Coupler), which connect to the RC-426 Ram, are not included in above sets because electricians owning a Blackhawk S-71 or S-78 unit already have this equipment. Those who don't own these hydraulic units must purchase the P-76 Pump and Z-913 hose in addition to the above assortments. If electric operation is desired, the RC-426 pull-ram can be powered by the P-182 Pump which also uses the Z-913 hose.

SB-41 MASTER DELUX KIT

Punches 10 conduit sizes with range as offered in SB-40 plus 4 large sizes of 2½, 3, 3½ and 4" diameters. SB-41 includes RC-426 hollow pull-ram, one each of 10 knock-out punches, 5 attachments and a compact, portable metal case with hasps for locking. The P-76 pump and Z-913 hose, which serve all Blackhawk Benders, attach to the RC-426 hollow pull-ram. See note below.

No. SB-41—Kit. List price each **$386.00**

PORTO-POWER HYDRAULIC PUMP



P-182

P-182 ELECTRIC

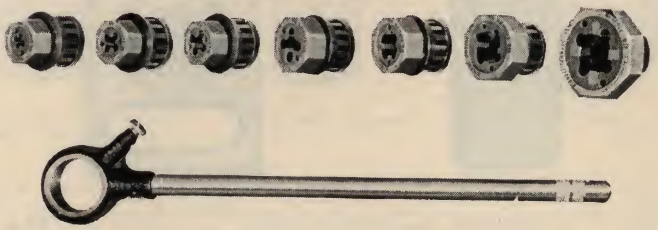
Blackhawk's P-182 Pump converts hand-operated hydraulic equipment, like pipe benders and knock-out punches, to economical, speedy electrical operation. It hooks up to all Porto-Power equipment and other hydraulic systems with pressures up to 10,000 p.s.i.

No. P-182—Electric Pump. List price each **$551.20**

	List Price Each
No. P-76—Hand operated pump	**$45.50**
No. Z-913—6 ft. hose	**22.10**

WRITE FOR COMPLETE INFORMATION ON THE *BLACKHAWK LINE*

NYE TRIAD RATCHET STOCK

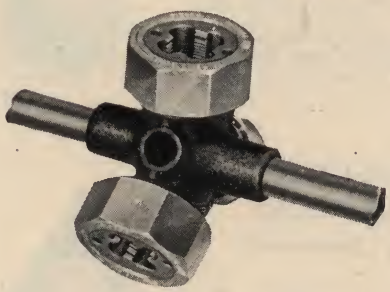


No.	Item Complete with R.H. Dies	Wt. Lbs.	List Price Each
N60-7	Stock.....⅛, ¼, ⅜, ½, ¾, 1, 1¼"	21½	**$61.60**
N60-6	Stock.....¼, ⅜, ½, ¾, 1, 1¼"	19¾	**54.10**
N60-5	Stock.....⅜, ½, ¾, 1, 1¼"	17¾	**26.60**
N60-4	Stock.....½, ¾, 1, 1¼"	15¾	**39.10**
N60-41	Stock.....⅜, ½, ¾, 1"....	14¼	**38.50**
N60-31	Stock.....½, ¾, 1"....	12½	**31.00**
N60-R	Ratchet with handle†	4¼	**7.90**
N60-H	Die head with die†—sizes ⅛-¾"	2	**7.50**
N60-H1	Die Head with die†—sizes 1 and 1¼"	2½	**8.10**
N60-P	Pawl only with spring	¼	**2.10**

†Interchangeable with Toledo No. 11 die heads and stock.

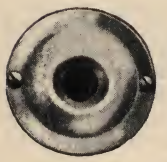
NYE THREE WAY TRIAD STOCKS

⅜" TO ¾" AND ½" TO 1"



(Fits Fed. Spec. GGG-T-581—Fig. 5—Type E)

No.	Item Complete with R.H. Dies	Wt. Lbs.	List Price Each
N3W-30	⅜, ½, ¾".....	7½	**$21.20**
N3W-31	½, ¾, 1".....	11¼	**24.70**
N3W-30-0	Stock Only, { Less Dies, Handles }	2	**13.20**
N3W-31-0	Stock Only, { and Screw Caps }	3	**13.20**

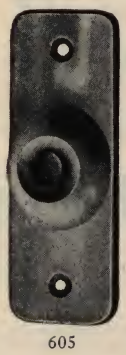

600

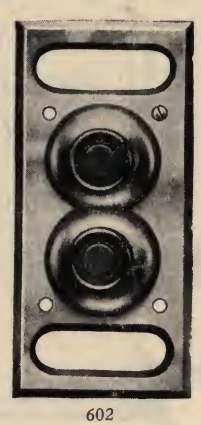
EDWARDS PUSH BUTTONS


606

Stamped Surfaces

No.	Description	Std. Pkg.	List Price Each
600	$2\frac{5}{16}$" diameter Satin brass	12	$0.25
603	$1\frac{3}{4}$" diameter Satin brass	12	.25
606	$1\frac{5}{16}$"x$2\frac{3}{8}$"x$\frac{13}{16}$" deep. Satin finish	12	.33


605


602

605	$1\frac{1}{4}$"x$3\frac{1}{2}$"x$\frac{3}{4}$" deep. Satin finish	12	$0.45
602	2"x$4\frac{5}{16}$"x$\frac{3}{4}$" deep. Two name holder. Satin finish	6	.05
607	$2\frac{1}{16}$"x$2\frac{5}{8}$"x$\frac{3}{4}$" deep. One name holder. Satin finish	12	.40

FLUSH PUSHES

For 50 Volts or Less


620-5/8"


625-5/8"

Long-life, molded center in heavy nickel rim, plastic back that's not affected by moisture. Heavy brass springs and plunger. Action positive. Self-cleaning contacts, strong terminals embedded in composition body permit use of larger screw driver and larger wire size.

No. 620—5/8" push. List price each $0.42

No. 620-L—Same as No. 620, except it has long life luminous center for use in darkened areas. List price each ..... .47

No. 625—Same as No. 620, except it has raised rounded push with white button 3/8" above level of rim. Spring clip mounting. Fits 5/8" hole. Rim $\frac{3}{32}$" wide. $\frac{11}{16}$" from back of rim to end of terminals. List price each ..... .80

FLUSH TYPE ESCUTCHEONS

For 5/8" Pushes only


62

No.		Std. Pkg.	List Price Each
62	Rectangular .. 6		$0.50
	$1\frac{1}{4}$" wide. 2" high. Nickel.		
62D	Diamond ... 6		.50
	$1\frac{1}{2}$" wide. $2\frac{1}{4}$" high. Nickel.		


62D

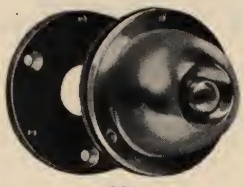

640

EDWARDS PUSH BUTTONS

NO. 640 KENT DELUXE ENTRANCE PUSH

Forged of solid brass. Polished to a mirror-like finish. Coated with weather-resistant substance that makes the original luster last. Easily mounted. No screws show. Snaps on easily, holds securely. Fits 5/8" mounting.

No.	High	Wide	Std. Pkg.	List Price Each
640	$2\frac{1}{4}$"	1"	3	$1.75


1786

Weatherproof

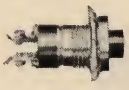
50 Volts or Less

Solid brass. Reliable for use outside of industrial and residential buildings. For marine work, ice plants, chemical plants, etc., where dampness, exposure or fumes would corrode or destroy the mechanism of the ordinary push button. Weatherproof leather diaphragm under brass button center protects the entire mechanism. Phosphor bronze contact springs. Brass plate threaded for 1/2" conduit. Standard finish, polished brass.

No.	Description	Pkg.	List Price Each
1786	Surface type	1	$6.00
1786C	Surface type. Weatherproof push with conduit plate	1	8.50

QUICK BREAK TYPES


820


821

Designed for heavy work. Requires a minimum amount of pressure to make a contact, and breaks fast regardless of how this pressure is released. Suitable for A.C. where quick make is not a factor. On D.C. operation at lower current ratings. Heavy brass, nickel plated shell case. Extra strong terminals.

No. 820—Forced fit. O.D. of rim 7/8". $1\frac{1}{2}$" from back of rim to end of terminal.

No. 821—Locknut type. Fits 7/8" hole. O.D. of rim 1". $1\frac{1}{2}$" from back of rim to end of terminal.

No.	Size	Std. Pkg.	List Pr. Ea.
820	3/4"	1	$4.00
821	7/8"	1	4.00

MOMENTARY CONTACT PUSHES

Quick Make and Break Type

For Up to 250 Volt Service


850

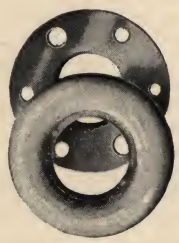
Used for panels, machinery and tools. Bakelite body, insulating protective sleeve. Shell solid brass. Threaded for 1/2" conduit locknut. Finish, nickel. Furnished with three No. 16 gauge, type AF standard flexible wire leads. Underwriters' listed.

No.	Description	Std. Pkg.	List Price Each
850	Contact push	1	$4.40

FLUSH TYPE SCREWLESS ESCUTCHEONS

Push buttons not included in price of Escutcheons. Nickel finish.

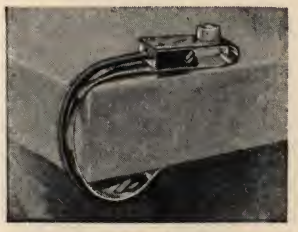
No.	Description	Std. Pkg.	List Price Each
60	(For 5/8" push) $1\frac{1}{2}$" dia...	6	$0.50


60

EDWARDS NO. 69 PENDANT PUSH



No.	Description	Std. Pkg.	List Price Each
69	Finger grasp, no chance of slipping out of hand. Tough unbreakable composition mahogany	3	$0.80



206

MOVABLE TABLE PUSH

Clamps on table, chairs, etc. Self-cleaning with phosphor bronze contact springs. Nickel finish. Use with No. 235 Receptaplug.

No. 206—Table push.

List price each $2.20

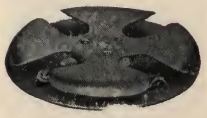


236

NO. 236 DOOR TRIP

For use where external mounting is desirable. All brass construction with brass-bronze contact springs. Make and break when door is open. Will not contact when door is closed. Not insulated.

No. 236—Door trip. Standard package 3. List price each $1.50



290

NO. 290 FLOOR TREAD

For dining rooms and other places requiring foot contact. Non-sliding rubber covered base. Can be used under carpets or rugs with negligible bulge. ½" high.

No.	Description	Std. Pkg.	List Price Each
290	—Floor tread	3	$1.65

EDWARDS PUSH SWITCHES

DESK BUTTON BLOCK

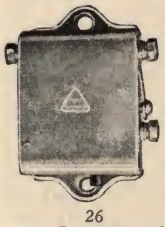


146

Bakelite, removable weighted base. Composition pad. Flush numbered midget pushes supplied with block. Can be mounted on the side of the desk. Will not scratch, mar or deteriorate. Black finish.

No.	Descrip.	Std. Pkg.	List Price Each
146	—1 button	3	$3.60
146	—2 button	3	4.30
146	—4 button	3	6.30
146	—6 button	3	9.10

CONSTANT RINGING DROP



26

Forms an important part of an open or closed circuit burglar alarm system. When the coils are energized by operation of any contact device on an open circuit system, or through a relay on a closed circuit system, the mechanism closes a circuit and keeps it closed until reset by hand, thus causing alarm on bells, horns, etc. Common terminal between coil and contact is grounded to case. In operation it also cuts its own magnets out of the circuit which reduces drain on battery where D.C. systems are used and protects the magnet coils where considerable time may elapse before setting. Standard operation, 6-8 volts D.C. or 8-12 volts A.C.

No.	Description	Std. Pkg.	List Price Each
26	—Ringing drop	1	$5.30

EDWARDS ALL PURPOSE CONTRACTOR



A universal device for doors, windows, transoms, safes, etc. Fully insulated for use in wood or metal. Operation may be obtained by pressure from the top, the front, any angle and from the bottom. Designed for hard service. Pure phosphor-bronze scraping contacts and heavy brass casing and moving parts. May be installed in any position. Contactor fits ¾" hole.

No.	Description	Std. Pkg.	List Price Each
44	Pressure on non-open circuit	6	$1.00
45	Pressure on closed circuit	6	1.00
46	Momentary contact	6	1.00

STREAMLINED



720—Dixie Bell
730—Dixie Buzabell



725—Dixie Buzzer



740—Nubel

Satin aluminum finished cover with gray base. Shallow; only 1" deep to permit mounting in out-of-the-way places. Trouble-free operation on either battery or transformer. 6-8 volts 60 cycles, 3-6 volts D.C. Non-adjustable.

720	Fully enclosed Dixie Doorbell.....	12	$1.00
725	Fully enclosed Dixie Buzzer	12	.85
730	Fully enclosed Buzabell; combination bell and buzzer	12	1.60
740	Nubel enclosed mechanism. Exposed 2½" gong	12	.90
744	Exposed 4" gong; enclosed binding posts	12	1.60

EDWARDS BELL AND CHIMES



17

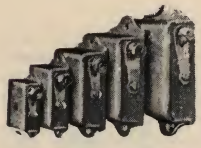
Double magnet for low-cost burglar alarm. Powerful signal. For A.C. or D.C. low voltage. Adjustable tone volume. One terminal is grounded to base. Non-weatherproof. Finish, light gray. For 6-8 volts D.C., 8-10 volts 60 cycle.

No.	Size		Std. Pkg.	List Price Each
17	4"	Double magnet	1	$9.50
17	6"	Double magnet	1	11.60

Single magnet for low cost bell. Does not have the stamina nor efficiency of double magnet bells. Adjustable tone volume. One terminal grounded to base. Non-weatherproof. Light grey finish. Standard voltage, 6-8 volts D.C., 8-10 volts 60 cycle.

55	4"	Single magnet	1	4.50
55	6"	Single magnet	1	5.50

EDWARDS BUZZERS AND BELLS



Lungen Buzzers

For A.C. or D.C. Base is cadmium with polished chrome cover. External insulated posts, grounded frame. Standard voltage 6-8 volts D.C., 8-10 volts 60 cycles.

No.	Size	High	Wide	Std. Pkg.	List Price Each
15	0	1½"	1⅝"	3	$3.30
15	1	2⅛"	1⅞"	3	3.10
15	2	2⅝"	2⅛"	3	3.30
15	3	3"	2½"	3	3.50

EDWARDS FLUSHCALL LINE

Small Bells and Buzzers



660 Ringcall



661 Buzacall



664 Togelpush



666 Powacall

Standardized, flexible, co-ordinated line of modern flush bells, buzzers and pushes that fit standard gang boxes and that take standard switch or receptacle plates.
Can be ganged together with 115 volt receptacles in standard box and finished with standard plate (except powacall which is usually mounted in multi-gang box with 115 volt receptacle in first gang, then powacall, then as many signals.

No.	Description	Std. Pkg.	List Price Each
660	Ringcall for 8-10 volt, 60 cycle.....	6	$1.65
661	Buzacall for 8-10 volt, 60 cycle.....	6	1.60
663	Melocall for 8-10 volt, 60 cycle.....	3	2.25
664	Togelpush low voltage	6	.45
666	Powacall transformer	3	3.40

EDWARDS ADAPTAHORN

Amp for Amp—The Loudest Horn on the Market



374



372

The clear, loud tone penetrates the most difficult noise levels. Ideal for schools and factories. Rugged, shock-proof, die castings, non-adjusting, weatherproof construction. Fits any outlet box having gang opening as well as 3¼", 3½", 4" octagon or 4" square boxes. Gray finish. Listed by Underwriters' Laboratories

No.	DBS at Ft.*	A.S.A. Loudness Unit	Voltage	Std. Pkg.	List Price Each
372	91	40,000	115V. 60 Cycle	1	$21.00
374	98	80,000	115V. 60 Cycle	..	18.50

*In accordance with NEMA proposed standard for noise measurement. Adaptahorn ratings are at 10 ft. instead of source.

EDWARDS VIBRATING ADAPTABEL

Heavy Duty



Greater carrying tone, clearness of sound, no mechanical chatter. Automatic compensation for plunger wear. No contact of springs. Plunger at bottom. "Z" metal die casting housing. Fits all mountings. Listed by Underwriters' Laboratories.

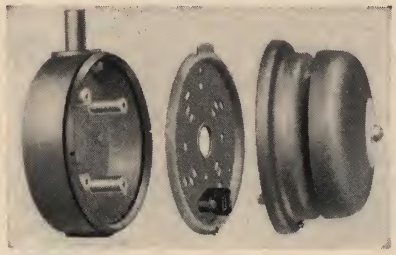
No. 340—4" size for offices and stock rooms.

No. 340—6" size for factory assembly departments, light machine shops, school corridors.

No. 340—10" for boiler rooms, heavy press rooms, playgrounds. Weatherproof back box and cast grid.

No.	Size	Decibels at 10 Ft.	Loudness Units	—List Price Each— 24V. 60 cy.	115V. 60 cy.
340	4"	77	13,500	$20.00	$25.00
340	6"	83	21,400	28.50	33.50
340	10"	89	35,400	37.50	40.00

ADAPTABEL AUDIBLE SIGNAL A.C.



Weatherproof box of cast aluminum, moulded neoprene gasket secured to box. Extra base at bottom and in back to provide unusual mounting requirements. Boxes are drilled and tapped on the top to take ½" surface conduit. Bosses are also provided in the back and bottom which can be drilled for unusual mounting requirements. Fits any outlet box with single gang opening or ¾", 3½", 4" octagon and 4" square box.

No. 348—Adaptabel audible signal. List price each.....**$6.00**

DOOR OPENERS

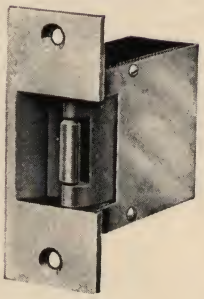
Mortise Type



9

Used extensively for low cost apartment jobs. Face plate is solid brass, nosing is forged brass. Enclosed in rust-proof case, cover removable. Body size 3⅝"x2⅛"x1". Nosing opening 1⅛". Face plate 5⅞", 1¼". Voltage 4.5-6 D.C. or 8-12 volts. 60 cycles.

No.	Description	Std. Pkg.	List Price Each
9	Door opener (mortise type)...	6	$4.00

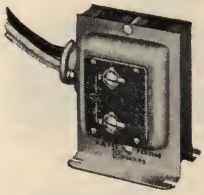


154

Roller and nosing forged brass, die cast body. Will stand up under the most severe operating conditions. Face plate beveled. Body size: 2", 2⅞", 1¼". Nosing opening 1¼". Face plate 1¼"x3⅜". Voltage: 4.5-6 volts D.C. or 12-16 volts, 60 cycles.

No.	Description	Std. Pkg.	List Price Each
154	Door opener (mortise type)	1	$9.00

EDWARDS EASI-MOUNT TRANSFORMERS



Designed for simple and quick installation. No screws or parts to take out, only one easy to reach set screw on the outside. Expandable nipple is inserted into ½" knockout. Non-removable set screw fastens from outside of outlet box. Overall size, 2⅝" high, 2⅝" depth, 1⅞" depth.

No.	Description	—Primary— Volts	Cycles	—Secondary— Volts	Watts	List Price Each
890*	Doorbell transformer	115	50-60	10	5	$1.72
892*	Chime transformer	115	50-60	14	10	3.20
894	Chime transformer	115	50-60	14	10	2.20
896	Tri-volt 5-watt transformer	115	50-60	6-12-18	5	2.50

*Underwriters listed.

EDWARDS TRANSFORMER

25-WATT TRIVOLT



872

Provides a greater selection of secondary voltages, although it does not have the Easi-mount feature. Primarily adapted to situations where an unusually long wire run exists. Special primaries, secondaries and 25-cycle transformers can be supplied.

No.	—Primary— Volts	Cycles	—Secondary— Volts	Highest Watts	Std. Pkg.	List Price Each
872	115	50-60	8-16-24	25	1	$5.30

EDWARDS SIGNALING TRANSFORMER

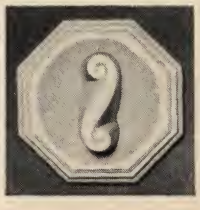


88

Completely enclosed in sturdy, stamped housing. Form their own barrier between high and low voltages. Large cenveniently placed binding posts on both primary and secondary which eliminate splicing, soldering and taping. Wide secondary range 4-8-12-16-20-24 volts are labeled for simplified installation. Knockouts into both compartments permit entrance with Bx, conduit or open wiring. Underwriters listed.

No.	Watts*	—Approx. Overall Dimensions— Hgt.	Width	Lgth.	List Price Each
88-50	50	4¼"	3⅝"	7⅞"	$ 9.80
88-100	100	4 7/16"	4⅝"	8⅝"	15.75

*Ratings apply to 24 volt tap. Wattage reduces proportionately for lower taps.



TWIST CHIME

Smart styling as all Edwards door chimes. Sonoscope-tested for tone purity. Molded plastic in classic design. No fuss, no wiring. Simple to mount.

No. 1631—Non-electric door chime. List price each.....**$3.95**

EDWARDS DOOR CHIMES



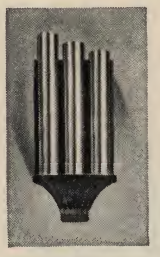
1630

THE FAIRFAX

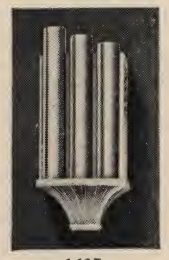
Looks like a knocker—sounds like a nocturne! Clear, perfect-pitch, two-note chime. Authentic colonial design by Lurelle Guild. Precision-made of rust-proof shining brass. No wires, no fuss to install—drill one hole and it's up! On inside, a handsome beveled mirror conceals chime mechanism. Perfect for that last-second feminine "fix-up"!

No. 1630—Non-electric door knocker chime. List price each **$7.75**

THE CHORDETTE



1636



1637

Soft, melodious chord says "welcome" as long as entrance button is pressed. Two-note sequence makes easily distinguished rear door signal. Comes in two beautiful finishes—white with gleaming chrome pipes and deep rich mahogany with bright brass pipes. Dimensions 11½" high, 5" wide, 3" deep.

No.	Description	Std. Pkg.	List Price Each
1636	Mahogany and brass	3	$7.95
1637	White and chrome	3	7.95

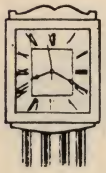


1638

Precision-built musical instrument. Reproduces the famous eight-note Westminster melody for the front entrance signal—pleasing two-note for the rear door, third or spare note signal for the side door. Long, over-sized tubes give deeper and more resonant tone, pitched soft and sweet. Notes can be heard throughout the house. Attractive combination of gold and burgundy on a grey background with ivory sides. Dimensions 55½" high, 9" wide, 4⅜" deep. Comes complete with transformer.

No.	Description	Std. Pkg.	List Price Each
1638	4 tubes, 8 notes	1	$44.95

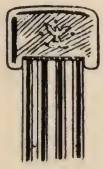
RITTENHOUSE DOOR CHIMES



NO. 610—CONCORD

New style hall clock-chime of superb quality. Combines the tonal smartness of a four-note chime signal with accuracy and dependability. Solid cherrywood cabinet in colonial styling, hand rubbed bright, satiny finish. "Floating percussion" unit sounds 4-note chime signal for front entrance, signal note for rear. Clock and chime operate on 24-volt transformer supplied.

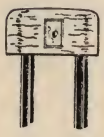
No.	Size	Std. Pkg.	Ship.Wt.	List Pr. Ea.
610	9¾" x 61"	1	15 lbs.	$69.50



NO. 410—SHEFFIELD

Attractive 4-note Westminster chime. Sounds pleasing 4-note melody for front door, single note for rear door. Four long brushed brass tubes. Lustrous burgundy-colored plastic housing with rich, gold-finished, decorative motif. Volume control permits setting volume at appropriate level, and shut-off switch allows chime to be completely turned off. Special 16-volt transformer included.

410	9¾" x 5½"	3	42 lbs.	$41.75



NO. 379—THE BUILDER

Attractive, long tube chime. Sounds two notes for front entrance, one for the rear. Perfectly proportioned housing with hammered brass escutcheon plate. Choice of simulated walnut grain or ivory finish. Brushed brass tubes. Operates on standard 10-volt bell transformer.

No.	Size	Std. Pkg.	Ship. Wt.	List Pr. Ea.
379	7⅛" x 43"	6	29 lbs.	$6.95



NO. 318—LYRIC III

Finest quality 2-note chime. Heavy brushed brass tubes. "Floating percussion" sounds two rich, melodious notes for front door, one for rear door. The third is silent and for decoration. Ivory plastic housing features solid brass clef ornament. Operates on conventional 10-volt bell transformer.

318	8¾" x 46½"	6	55 lbs.	$14.50



NO. 325—COLONIAL

Colonial motif, distinctively styled for contemporary living. Gracefully detailed ivory housing is made of lustro washable **Dow** plastic with permanent molded-in color. Tubes heavily lacquered, brush brass. Sounds two clear, melodious notes for front door, one for rear. Operates on 10-volt doorbell transformer, or the new **Rittenhouse** repeating tone transformer.

No.	Size	Std. Pkg.	Ship. Wt.	List Pr. Ea.
325	7" x 8"	6	13 lbs.	$6.95



NO. 366—AVALON

A completely new advance in door chime design, much wanted by decorators and home owners. Functional simplicity, carefully executed in rich new materials. Luxurious **beige boucle** grille covering, tastefully highlighted with deep gold-brass trim.

Operates on any 16-volt chime-transformer. With conventional chime transformer it produces 2-note signal for front door and single note for rear door. With new **Rittenhouse** No. 50 repeater transformer, an automatically repeating tone of loader volume is obtained.

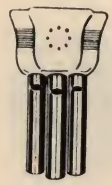
366	7¼" x 8½"	6	16 lbs.	$9.95



NO. 236—SIMPLICITY

Rich, distinguished walnut grain finish, attractive design with brass escutcheon. These features, plus excellent tone, make this model particularly well suited for gifts. Provides both a 2-note and a single-note signal. Easily installed on conventional doorbell wiring and regular 10-volt bell transformer.

236	7" x 4"	12	19 lbs.	$4.95



NO. 520—BEVERLY

Popular model of stunning design. Plays rich, melodious four-note sequence for front door, one for rear. Includes adjustable volume control and shut-off switch. The lustrous ivory plastic housing and the gleaming brushed brass tubes combine to provide a gracious charm that is in good taste in any home. Special 16-volt transformer is included.

No.	Size	Std. Pkg.	Ship. Wt.	List Pr. Ea.
520	9" x 15¾"	6	40 lbs.	$28.75



NO. 225—UTILITY

Compact, inexpensive chime ideally practical for use in small homes, apartments or wherever space is limited. Available in either white and silver, or eggshell ivory and gold finishes. Sounds two notes for the front door and a single note for the rear. Operates on standard 10-volt bell transformer.

225	7" x 4"	12	19 lbs.	$4.25



NO. 265—BROOKDALE

A value leader in every respect. Sounds two clear notes for the front door and single note for the rear door. "Floating percussion" mechanism insures quiet, dependable operation. Easily installed, operates on standard 10-volt bell transformer. Available in white and chrome, ivory and brushed brass, or walnut and brass finishes.

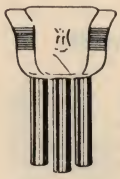
265	7" x 9¾"	6	16 lbs.	$7.25



NO. 312—DORSET

This distinctively styled model operates on an ordinary doorbell transformer and is designed for use in small homes and apartments. The housing is carefully constructed of richly finished ivory plastic, the tube finish is a bright, brushed brass. Two clear notes are sounded for the front door and a single note for the rear.

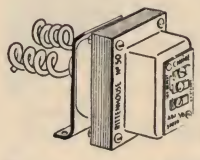
312	9¼" x 10"	6	19 lbs.	$9.50



NO. 365—SENTINEL

High style and performance. Three gleaming brushed brass tubes sound two rich, resonant notes for the front door and a single note for the rear door. Ivory plastic housing with gold-finished decorative lyre design. Has "floating percussion" mechanism insuring quite, long-life operation. Operates on special 16-volt transformer which is packed with the chime.

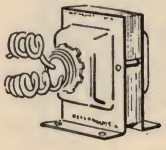
365	9" x 14½"	6	34 lbs.	$15.50



NO. 50—REPEATER TRANSFORMER

Converts ANY 10-VOLT CHIME to a repeating chime. Provides four separate signals—two conventional plus two repeating. Qwik-Lock universal mounting. Thermal cutout Underwriters' Approved.

No.	Volts	Watts	Std. Pkg.	Ship. Wt.	List Pr. Ea.
50	16	10	12	12 lbs.	$3.10



QUIK-LOCK TRANSFORMERS

No. 180 10-volt Bellringer. Operates any 10-volt Rittenhouse chime. Universal mounting. Underwriters' approved.

No. 30. For superior operation of 10-volt chimes. Universal mounting. Thermal cut-out. Underwriters' approved.

180	10	5	24	18 lbs.	$1.70
30	16	10	24	20 lbs.	2.20

FEDERAL MOTOR DRIVEN HORNS

WEATHERPROOF—WATERTIGHT



Model 60

Motor driven, depends on speed for tone intensity. Signals have a tone distinctively different from other signals. Has powerful harsh note that gains instant recognition. Pitch variation begins and ends each blast as the motor starts and stops. Best for general alarm warning. Being motor operated, will not respond to quick code impulses like a vibratory or resonating horn. Not recommended for use with automatic coding devices or where short sharp code signals are necessary. Finished in gray lacquer.



Model 20

No.	Projector	Current	Voltage*	Cycle†	Dimension	List Price Each
20	Single	AC	110-220-250	60	7½"x6¼"	$60.00
21	Single	DC	110-220-250	—	7½"x6¼"	65.00
60	Double	AC	110-220-250	60	19¾"x6¼"	65.00
61	Double	DC	110-220-250	—	19¾"x3¼"	70.00

*Specify definite voltage on order.
†25 cycle optional at 60 cycle price.

FEDERAL ELECTRIC SIRENS

WEATHERPROOF



Model A

Model A industrial siren. Wail is easily recognized through confusion of other sounds. Its weatherproof housing of sheet metal protected by coating of red lacquer. For special applications, such as in unusually corrosive atmospheres, it can be furnished with housings of solid brass or copper.



Model J

It is equipped with an adjustable bracket to permit mounting at any desired angle. Is available in any standard voltage from 6 to 120 volts. The motor is universal AC-DC and on alternating current will operate on any cycle from 25 to 60. A definite voltage must be specified on order, however.

Model	Voltages	Watts	Length	Width	List Price Each
A	6-12-24-110	175	15½"	10½"	$60.00

Electric cranes, and similar equipment for handling heavy material, require distinctive signals under conditions that frequently call for long periods of operation. Sirens in such service are powered from AC or DC high voltage lines, subject to extreme voltage surges. Improved air intakes and sound projectors utilize and direct the sound waves with the utmost efficiency. Averages about 150 cycles per second lower in sound frequency. Adjustable brackets for mounting on posts, walls, or ceilings. Equipped with universal motors and available for 110, 220, or 250 volts.

Model	Voltages	Watts	Lacquer	Length	Width	List Price Each
J	110-220-250	200	Red & Black	15½"	11½"	$75.00



"HI-POWER" VIBRATORY HORN

FOR INDUSTRIAL AND FIRE ALARM SIGNALING

More than 50% greater sound volume than the Regular horn, combined with rougher, more raucous tone. Assure greater coverage. Constructed of non-corrodible materials. Mechanisms are enclosed in housings which are properly gasketed. All insulating parts are bakelite. Housings tapped for ½-inch conduit. The projectors on the models 32 and 33 may be rotated through 180 degrees to direct sound as desired.

Type	Voltage*	Cur.	Cyc.	Finish	Net. Wt.	Ship. Wt.	Lgth.	Price Each
31	6 to 250	AC	60†	Gray lacquer	4 lbs.	4½ lbs.	4⅜"	$18.50
32	6 to 250	AC	60†	Gray lacquer	5¼ lbs.	6½ lbs.	9½"	25.00
33	6 to 250	AC	60†	Gray lacquer	6 lbs.	7¼ lbs.	9½"	33.50

*Available in any voltage from 6 to 250. Definite voltage must be specified on the order.
†Available also in 25 cycle at no additional charge.



Model 30X

EXPLOSION-PROOF HORNS AND SIRENS

Explosion-proof signals are indispensable in refineries, laboratories, grain elevators, arsenals, mines and tankers and in other locations where there are explosion hazards from dust, vapors or gases.

Part comparison will prove the advantages of extra heavy baffles and ample flame paths which are further safeguarded by serrated surfaces. All surfaces are accurately machined and precisely fitted. Housings and other exterior parts are cast of non-corrodible materials. Diaphragms are of special stainless steel. Tapped for ¾" conduit. The projector on the Model 30-X may be rotated 180 degrees to modify sound distribution. The finish is gray lacquer.

Model	Voltage	Current	Cycle	Watts	Lgth.	Diam.	List Price Each
30X	110 or 220	AC	60	20	11½"	6"	$46.75



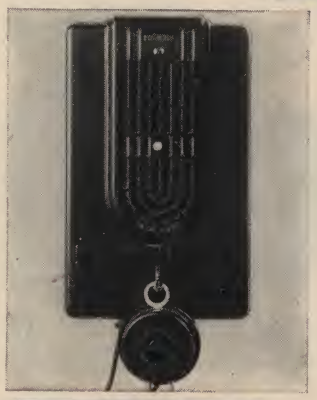
EDWARDS RESET ANNUNCIETTE SURFACE MANUAL

The smallest and neatest annunciette available without sacrificing clearness of the indications. Designed to stand up under severe service. Includes 100 assorted name and number cards. ½" high, ⅞" wide. Standard audible signal is a buzzer. Finish light grey. Voltage 12 volts, 60 cycles.

NO. 82 RESET ANNUNCIETTE

Drops	4	8	12	16	20	24
Std. Pkg.	1	1	1	1	1	1
List Pr. Ea.	$22.00	$34.00	$50.00	$65.00	$84.00	$111.00

EDWARDS INTERCOMMUNICATING TELEPHONES



SURFACE WALL TYPE

Metal face plate with molded collar, skillfully designed to mount conveniently on any wall. 4" square box, standard switch box or any outlet box with single gang switch cover or any single gang condulet or wiremold type fitting. Finish, satin black. Overall dimensions 9⅛" high, 5⅛" wide and 2⅞" deep.

No. 4060 1 Button Telephone. List Pr. Ea...**$23.50**



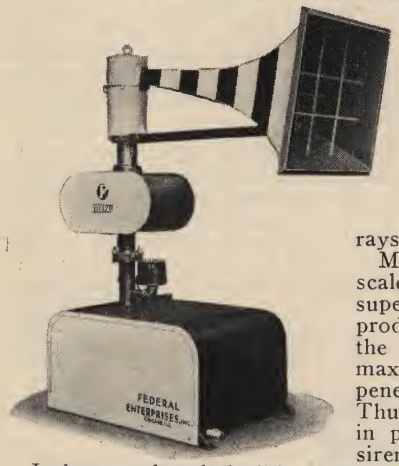
SUSPENDED HAND SET TYPE

Ideal for mounting on post, in narrow wall space or side of desk. Neat satin bakelite hand set suspended from small metal connector box. Switch lever separate from stationary cradle. Overall size 9½" high, 4" wide, 4¾" deep.

No. 4065 1 Button Suspended Wall Telephone. List Pr. Ea. **$40.00**

FEDERAL INDUSTRIAL AND TRAFFIC SIGNALS

THUNDERBOLT DIRECTIONAL BEAM SIREN



Powerful controlled rotating beam of sound. Full sound output concentrates the sound wave in a directional beam. The projector rotates through 360° to direct the beam for unusual distances like the rays of a giant searchlight.

May be sounded up and down scale at maximum pitch. The supercharger principal however produces full sound volume at the lower pitch as well as the maximum. Since lower pitches penetrate obstacles better, the Thunderbolt can often be heard in places that the conventional sirens would fail to reach.

It has produced decible levels from 126 to 140 at a distance of 100 feet, proves it to be the most powerful siren per horsepower (10 H.P.) ever produced.

A variable speed drive permits selection of different rotational speeds. A selector switch permits a choice of maximum pitch without sacrifice of volume. Supercharger can be located on the top floor of a building, inside, with the projector and rotator extended above the roof.

The farther you project the sound, the more obstacle you encounter. The increased area is a direct square of the radius ($AIIR^2$).

Model	H.P.	Voltage	Phase	Cycle	Current	Wt. Lbs.	List Price Each
1000	10	220	3	50-60	A.C.	1200	$2,500.00

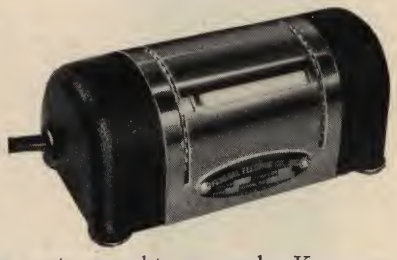
REMOTE CONTROL

Like conventional sirens, the Thunderbolt should be operated through a remote control. This type of panel for the Thunderbolt consists of a series of relays for controlling the different functioning parts. These relays are panel mounted and wired together in a metal case, ready to connect to the power and operating circuits.

SPECIFICATIONS on the No. 1000 remote control for the Thunderbolt siren are as follows—width 24 inches, height 18 inches, depth 6 inches, 220 volts.

60 Cycles, A.C. only. List price each **$300.00**
Warning Timer. List price each **150.00**

SIGNAKALL



Supreme paging unit for audible signal systems for coding horns, chimes, bells and buzzers. The **heart** of the system is the automatic signal paging device. It tirelessly repeats a clear rhythmic call, without hesitation or variation, until the party sought, responds. Key men are located promptly. Long distance phone calls are not held unduly. Switchboard traffic is reduced and "searchers" can spend their time at more valuable tasks.

Electrically operated by 110 V., 60 cycle synchronous motor, it is capable of giving 30 different code combinations. Rotating a small wheel selects the desired code and a flip of the switch transmits the impulses until the device is turned off.

The paging circuit contacts are independent of the power supply which operates the paging mechanism. This will permit the use of any desired voltage and type of current on the paging circuit.

Nothing approaching this has heretofore been offered. Measuring but 3 x 4 x 6 inches it is small enough to hold in the palm of your hand.

NOTE: The contacts are rated at 5 amperes at 110 volts with proportionate capacities at higher and lower voltages that may be used on the signal circuit. If the total amperage of all signals on the circuit exceeds this, a relay of proper capacity should be cut into the circuit as diagrammed below.

Signakall. List price each **$85.00**
Relay for Signakall. List price each **20.00**

FIRE ALARM OR WARNING SIGNALS



Used primarily as a fire alarm or warning signals by municipalities, industries, and large institutions. Indispensable wherever a signal must be audible over a large area as an emergency warning, dinner call, start-stop work signal; in mines, quarries, large scale construction projects, or on a plantation or ranch.

Vertical sirens radiate sound equally in all directions. Weatherproof housing doesn't muffle siren's tone; they are built with ample load capacity. Horsepower developed far exceeds their rating. Grease sealed ball bearings, precision construction assures dependability. No. 2 equipped with universal motor. No. 5 and larger equipped with induction motors. Large siren should be operated through a remote control to which any number of push buttons or pull lever boxes may be connected. Remote controls equipped with thermal cutouts which prevent damage to siren from overheating and burnouts, resulting from short circuits, single phasing or unusual current surges.

The general alarm controls are motor driven timers which automatically sound the siren up and down the scale, controlled by push buttons.

No.	H.P.	Voltage	Cur. Cyc.	Phase	Ht.	Max. Dia.	Base Dia.	List Price Each
2	2	110 or 220	Univ.	1	30″	21″	14″	$250.00
5	5	220 or 440	AC 50/60	3	42″	35″	21″	450.00
5	5	220	AC 50/60	1	44″	33″	22″	525.00
7	7½	220 or 440	AC 50/60	3	53″	36″	25″	500.00
7	7½	220	AC 50/60	1	53″	36″	25″	575.00

FIRE ALARM BOXES, PULL LEVER TYPE



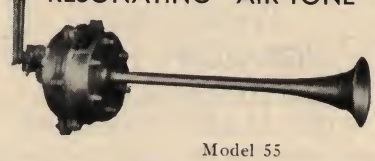
Federal Push Buttons are for heavy duty service. Two types are available: the "Start Stop" (or maintained contact type), and the "Start Only" (or momentary contact type). For use with any siren and remote control or with the "Standard" and "Predetermined" General Alarm Controls.

Federal Fire Alarm Box (pull lever type). A pull of the lever starts the box which can be set to repeat its signal 2, 3, or 4 times as desired, automatically stopping at the conclusion of the alarm.

CONTROLS

	List Price Each
Remote Control for No. 2 Siren	$30.00
Remote Control for No. 5 Siren	60.00
Remote Control for No. 7 Siren	60.00
Push button switches (either type)	5.00
Push buttons in break glass weatherproof box	20.00
Fire alarm box (as illustrated)	55.00
Fire alarm box in aluminum weatherproof box	80.00
Standard General Alarm Control	45.00
Predetermined (Automatic Stop) G.A.	65.00

RESONATING "AIR-TONE" HORN



Model 55

Famous for fast coding or sustained general alarms. Resonance is responsible for its distinctive, powerful, high intensity tone and volume comparable to an air horn. In many instances, can supplant the smaller air horns and electric air whistles. Entirely electric in operation, eliminates expense of piping, valves, compressors and other "air" necessities. Housing and diaphragms on these horns are of non-corrodible material which is further protected by an ample coating of red lacquer.

Model	Voltage	Current	Cycle	Dia.	Dpt.	Lgth.	List Price Each
55	12-250	A.C.	60	7½″	20½″	20½″	$60.00

BELFONE INTERCOMMUNICATION SYSTEMS

The 460 Series of Belfone Inter-communication Equipment. You may mix masters, standard substations and selected substations as requirements dictate.

Completely secret—no one can listen in either part of your conversation. The power supply on the unit being relay operated, it "idles" while not in active use. This saves current and extends greatly the life of its components.

With selected substations it is possible to initiate calls and to reply to as many as seven individual stations. Also, by using balanced paired cable there is less interference, less noise and better transmission. Cable requirements are relatively simple and all units are furnished with plug-in cable connectors.



MASTER UNIT

Operation: M-S; M-M; Mixed
Power Output: 4.5 watts
Speaker: 4" PM 15 ohms
Controls: Vol. W/AC Sw.; 6 or 14 station keys plus talk Sw.; internal overall Vol. control
Capacity: Model 460-S—6 additional masters or substations. Model 460-L—14 additional masters or substations
Tubes: (4) 2—7F7; 1—6V6GT; 1—6X5GT
Size: 12" long; 7" deep; 6" high
Finish: Walnut Durez
Shipping Wt.: 12 lbs.

Model 460-L—Master unit. List price each **$103.95**

DESK TYPE SELECTIVE SUB-STATIONS



Speaker: 4" PM 15 ohms
Finish: Walnut Durez
Capacity: One master
Size: 12" long; 7" deep; 6" high
Shipping Wt.: 6 lbs.

Model 464—Sub-station. List price each **$20.35**



Speaker: 4" PM 15 ohms
Finish: Walnut Durez
Capacity: Three masters
Size: 12" long; 7" deep; 6" high
Shipping Wt.: 7 lbs.

Model 464-3—Sub-station. List price each **$32.45**



Speaker: 4" PM 15 ohms
Finish: Walnut Durez
Capacity: Seven masters
Size: 12" long; 7" deep; 6" high
Shipping Wt.: 8 lbs.

Model 464-7—Sub-station. List price each **$39.60**



SUB-STATION SWITCH

Speaker: 3½" PM 4 ohms
Call-In Sw.: Yes
Finish: Walnut Durez
Size: 4" high; 6" wide; 2" long
Shipping Wt.: 2 lbs.

Model 427—Sub-station. List price each **$11.50**

MASTER STATION



Model 420

The ideal unit for a "starter" system of one master and sub-station — for use on farms, small businesses, professional offices or individual departments. Being universal in its operation of permitting you to start with a simple master to sub-station system and expanding your system as your individual needs require. You may convert your original system from a master to sub type of system to a master-to-master or even a mixed master and sub system without obsoleting your original equipment.

SPECIFICATIONS

Operation: M-M; M-S; Mixed
Power Output: 2 watts
Speaker: 4" PM 4 ohms
Controls: Vol. W/AC Sw.; internal overall Vol. Cont.; 5 positions plus "all-call" rotary selector Sw.; 3 position talk-listen-idle Sw.
Power: 117 V. AC or DC
Tubes: (3) 1—50L6GT; 1—35Z5GT; 1—12SJ7
Capacity: 5 additional masters or sub-stations plus "All-Call"
Finish: Walnut Durez
Size: 12" long; 7" deep; 6" high
Shipping Wt. 9 lbs.

Model 420—Master unit. List price each **$56.95**

CABLE REQUIREMENTS. For master-to-master installations you require one more conductor than the number of masters in the system. For master to sub operation: with call-in; three conductor; without call-in; two conductor twisted. For mixed master-sub: due to the wide number of variations, no set formula is practical. Consult manual.

WALL TYPE SUB-STATIONS



Model 465

Speaker designed for wall mounting and where it is not required to initiate a call from substation. Comes complete with wall hanging brackets and terminal strip.

SPECIFICATIONS

Speaker: 6" PM
Impedance: 15 ohms
Finish: Walnut
Size: 10" high; 9½" wide; 3½"x5½" deep
Shipping Wt. 6 lbs.

Model 465—Wall type. List price each **$23.00**



Model 467

Designed for wall mounting and is equipped with a push-button switch that permits initiating a call to its master unit. Comes complete with wall hanging brackets and terminal strips.

SPECIFICATIONS

Speaker: 6" PM
Impedance: 15 ohms
Finish: Walnut
Size: 10" high; 9½" wide; 3½"x5½" deep
Shipping Wt. 6 lbs.

Model 467—Wall type. List price each **$25.00**

CABLE REQUIREMENTS—Balance paired cables are required for installation of the 460 series. In all-master installations, the number of pairs required is equal to the number of masters. For master-to-standard sub-stations with "call-in" a three-pair-cable is required to each sub-station. For junction boxes see opposite page.

SPEECH MASTER PROJECTOR



Meets a real need for paging and inter-communication applications. Particularly efficient in the voice frequency range, it delivers clear, intelligible speech with maximum "punch" to override high noise levels. Extremely clever mounting bracket, projector can be pointed in any direction and securely locked into position with a single wing nut. Nominal voice coil impedance, 8 ohms. Power handling capacity, 15 watts. Mounting facilities are also provided on bracket for a ⅝" x ⅝" transformer. Because of the Hypex formula, useful output is attained for a 100 degree total angle. Dimensions: Mouth diam., 8⅞" length 7⅛".

Model VH-91—Master projector. List price each **$35.80**

"BIG BEAM" PORTABLE LAMP



700

Projects a 2,000-foot beam, due to a 6" true parabolic silvered reflector. With prefocused bulb, heavy-duty case and heavy lens. Adjustable head and convenient switch. Battery connections so arranged as to make battery replacement easy. Uses four No. 6 standard dry cells.

No.		List Price Each
700	Without batteries	$34.00

"BIG BEN" PORTABLE HAND LAMP



211

The Most Powerful Flashlight Made
Uses 8 No. 950 or No. 2 Unit Cells
Powered by Standard Lantern Batteries
Dual Purpose—General Service Lamp

Head contains two bulbs, one produces bright 1500 ft. beam, other is for "localized" lighting.

Chromium plated reflector, 4½" in diameter . . . Heavy convex lens . . . Head vertically adjustable . . . Permanently attached cell-to-cell connectors . . . Battery case is 6x3x4¾" high . . . Uses two lantern batteries. Bulb No. 502-S.

No.		List Price Each
211	Less batteries	$25.00

"YELLOW-FLASH" LIGHT



2100

Produces an extremely powerful "Spot" beam, will "pick up" objects from ¼ to ½ mile away.

Compact, measures only 8x3x3". Head tilts to any angle. Finished in bright Yellow enamel and polished Chrome. Furnished with No. 965 bulb.

No.		Std. Pkg.	List Price Each
2108	Less batteries	3	$5.26



Model A1530

DELTA POWERLITE

6 Volt, 2-Reflector Lantern with Lens Guard attached
Furnished Complete Less Batteries

No.	Std. Pkg.	Ship. Weight	List Price Each
A1530	12	28 lbs.	$4.65

EVEREADY FLASHLIGHTS



Seamless Brass Tube—Chrome and Black Finish

No.	Cell		Pat. No.	List Price Each*
2251	2	Automatic Spotlite	950	$1.60
4351	3	Automatic Spotlite	950	1.49
4251	2	Automatic Spotlite	950	1.14
2231	2	Baby Spot	935	1.60
2552	5	Automatic Searchlite	950	3.95

* Without Batteries



INDUSTRIAL SAFETY TYPE

Heavy gauge metal tubes with a Durable Covering of Rubber Safety Types approved by U. L. and Bureau of Mines, Class 1 Group D. All prefocused type.

No.	Cell		List Price Each*
1251	2	General Purpose	$2.95
1259	2	Permissible Safety	5.00

* Without Batteries



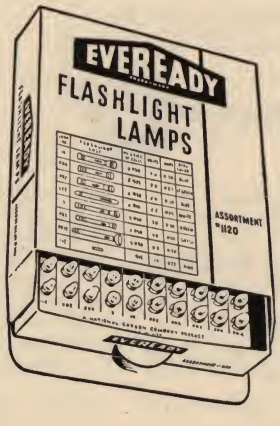
No. 21 DISPLAY PACKAGE

Contains 12 No. 212 Penlites assorted in all chrome and black and chrome styles. Uses two "Eveready" No. 912 batteries. List price, 12 lights in display package (without batteries). $9.60

DISPLAY PACKAGE

Contains 6 "Eveready" No. 7251 Square "Masterlite" flashlights in black and chrome. Uses two "Eveready" No. 950 batteries. List price, 6 lights in display package (without batteries). $10.20

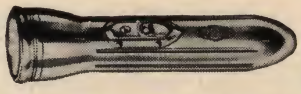




No. 1120 "EVEREADY FLASHLIGHT LAMP ASSORTMENT

100 flashlight lamps in display package carefully chosen to maintain steady turn-over and satisfy your customers' needs. Total list price each of No. 1120 assortment $13.00

RAY-O-VAC FLASHLIGHTS



2 and 3 Cell Chrome Plated Spotlight

No.	Type	List Price Each
Z22R	2 Cell Prefocused	$1.60*
Z32R	3 Cell Prefocused	1.95
Z22B	2 Cell (Baby)	1.60

* Less Batteries

INDUSTRIAL TYPES

2 Cell spotlight, rubber and fiber construction.

BR22	2 Cell	$1.60

Fiber covered brass barrel with neoprene rubber end caps. Locking switch prevents turning on light accidentally.

BM22	2 Cell Safety	$3.45*
BM32	3 Cell Safety	4.20
G22	2 Cell General Purpose	2.60
G22	3 Cell General Purpose	2.67

* Less Batteries

HIPWELL INDUSTRIAL FLASHLIGHT



Rubber head and rack, resilient durite barrel, fool-proof slide switch.

No.	Cell	List Price Each*
512	2	$1.50

* Less Batteries



RAY-O-VAC BATTERIES

LEAK PROOF UNIT CELL

Guaranteed not to stick in plug or damage flashlight.

No.	Type	List Price Each
2-LP	Regular	$0.12½
1-LP	Baby	.12½
BB21	Torch	.15
7R	Penlight	.10



EVEREADY BATTERIES

UNIT CELL

No.	Type	List Price Each
950	Standard	$0.12½
935	Baby	.12½
915	Pen size	.10
912	Miniature	.10



LANTERN BATTERIES

Four-cell battery for use in railroad lanterns.

No.	List Price Each
509	$.80



EVEREADY
TRADE-MARK

COLUMBIA BATTERIES

Nationally known, exceptionally long life. 1½ volts.

No.		List Price Each
6	Ignitor	$0.80
6T	Gray label-telephone	.75

Fahnstock Clips furnished on request. Shipping weight, 228 lbs. per 100 batteries. Freight prepaid on shipments from factory on 200 lbs. or more.



HOT SHOT BATTERIES

Durable steel case dry battery. Completely insulated; impervious to water.

No.	Volts	List Price Each
1461	6	$3.50
1662	9	5.25

EVEREADY
TRADE-MARK

Radio Batteries







No.	Battery	Volts	List Price Each
717	A	7½	$1.00
736	A	4½	.85
746	A	4½	.90
467	B	67½	2.50
482	B	45	2.25
490	B	90	3.25



MUELLER BATTERY CLIPS

No.	Description	Length of Clip	Spread of Jaws	List Price Each
11	200 Amp. Solid Copper Clip with Lug	6″	1¾″	$2.56
11-A	100 Amp. Clip, with Lug, Steel, Lead Plated	6″	1¾″	1.68
21	100 Amp. Solid Copper Clip with Lug	4½″	1¼″	1.30
21-A	50 Amp. Clip with Screw, Steel, Lead Plated	4″	1¼″	.48
22	Twin-Clip with Screw, Steel, Cadmium Plated	2″	½″	.20
24	50 Amp. Solid Copper Clip with Screw	2⅞″	1″	.52
24-A	25 Amp. Clip with Screw, Steel, Lead Plated	2⅞″	1″	.30
27	20 Amp. Clip with Screw, Steel, Cadmium Plated	2 7/16″	5/8″	.22
27-C	40 Amp. Solid Copper Clip with Screw	2 7/16″	5/8″	.38
33	300 Amp. Solid Copper Clip with Lug	7¾″	2″	4.50
45	Pee-Wee Clip with Screw, Steel, Cadmium Plated	1½″	3/8″	.14
45-C	Solid Copper Clip with Brass Screw, Phosphor Bronze Spring	1½″	¼″	.22
48-B	Clip with Screw, Steel, Cadmium Plated	2″	½″	.16
48-C	Solid Copper Clip with Screw	2″	½″	.26
50-C	Needle Clip, Solid Bronze, Brass Screw	2¼″	½″	.46
51-C	Solid Bronze Clip with Screw	2¼″	½″	.32

ESS BATTERY CHARGERS



Model 635—Charging rate starts at 7 amp. (max.) on dead battery, tapering to 3 amps. as battery becomes fully charged. Delivers up to 55 amp.-hrs. overnight. Charging rate is shown by meter. Size is about 7¼x7¼x6 inches. This charger charges 50% faster than 5 amp. charger. Automatic reset fuse.

Model 635—Charger. Shipping wt. 8 lbs. List price each..**$15.95**

Model 425—Charging rate starts at 5 amp. (max.) on dead battery, tapering to 2 amps. as battery becomes fully charged. Charger delivers up to 40 amp.-hrs. overnight. Size about 7¼x7¼x6 inches. Automatic reset fuse. (Does not have meter.)

Model 425—Charger. Ship. wt. 6 lbs. List price each..... **11.95**

Model 421—Designed to meet a crying need. Operates off 110 volts, 60 cycles A.C. Puts out approximately 4 to 2 amps. Portable Charger can be moved from one car to another with ease. The Charger to make your car start on cold mornings. Size 3x4x6 inches. Fuse easily replaced. (Does not have meter.)

Model 421—Charger. Ship. wt. 4 lbs. List price each..... **8.70**

G.E. BATTERY CHARGER



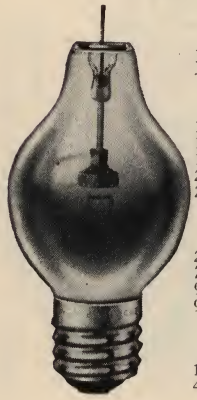
Selenium rectifier chargers are small and lightweight. Can be shelf or wall mounted or placed on floor. Will charge battery without removing from truck, car or tractor.

Overnight Charger suitable for farm use to keep batteries in top condition. Will charge the average discharged battery in 12 hours, or less. **One Day** Charger ideal for home and general use. Charges average run-down car battery in 24 hours or less.

Equipped with long A.C. cord and moulded plug and D.C. leads with battery clips. Pilot light indicates when in operation. Charger provides automatic tapering charge from maximum rate to lower safer rate as battery becomes fully charged. Plug into 115 volt, 60 cycle A.C. outlet.

No.	Cells	Volts	Amps.	List Pr. Ea.
6RS937A1—One-Day	3	6	7	**$21.50**
6RS937A2—Overnight	3	6	12	**30.00**

G.E. TUNGAR CHARGER BULBS



No.	Dim. in Inches Max. Lgth.	Max. Diam.	Socket No.	Std. Pkg.	Ship. Wgt.	List Price Each
ARGON HALF WAVE						
12X825	4¼	2⅛	278768	24	8	$5.50
189048	7	3	217967	12	7½	6.00
189049	7	3	217967	12	7½	6.00
206501	4¼	2⅛	Std. Edison	12	7½	5.50
217283	8⅝	3¾	217967	15	25	12.00
MERCURY ARGON HALF WAVE						
20X672	4⅝	2⅛	K3778926	24	8	7.00
76X13	9¼	3½	217967	15	26	18.00
99X44	7	3	217967	12	7½	7.00
99X45	9¼	3½	217967	15	26	18.00
MERCURY ARGON FULL WAVE						
16X897	6	2⅛	M5556072G1	24	8	15.00
45X674	7⅜	3⅛	M5556072G1	12	7½	18.00

AEROVOX INTERFERENCE SELECTORS



ANL-37

Type ANL-37—Plugs between intefering device and outlet. Selector switch adjusted until noise is eliminated or minimized. Dial indicates which type filter to use. Handsome, sturdy metal cabinet. Compartment contains necessary test leads and attachment plugs and clips. Size 5½ x 5½ x 8 inches.

Type ANL-37—List price each....**$35.00**

AEROVOX FILTERS


IN-23

Type IN-23—For elimination of interference caused by neon and fluorescent lamps or fractional horsepower motors. Mounting bracket for attaching to neon fixture (one eliminator needed for each fixture) or for attaching to frame of motor. Flexible leads for connecting across motors such as in hair-driers, fans, mixers, etc. .5-.5 mfd. 1 x 2⅛ inches.

Type IN-23—List price each **$1.05**


IN-27

Type IN-27—Simple, inexpensive noise filter. Inserted between set and outlet when interference is slight. Also used with appliance causing low-intensity interference. Keeps troublesome noises out of house wiring and power line. Size 1⅜ x 1½ inches.

Type IN-27—List price each..... **1.50**


IN-28

Type IN-28—Intended for cases where ground is considerable distance from point of application. Most efficient when mounted directly on interfering device by bracket. Size 1⅜ x 2 inches.

Type IN-28—List price each..... **2.00**


IN-29

Type IN-29—Provides additional filtering action over IN-27 and IN-28. Especially effective for local sources of interference of variable character but strong intensity. Very effective for electric razor and other vibrating devices. Plugs between device and line. Size 1⅜ x 3 inches.

Type IN-29—List price each..... **1.50**

Type IN-30—Similar to IN-29 but with additional inductance. Handles more severe interference. Plugs between set and outlet, or preferably between noisy appliance and outlet. Size 1⅜ x 3 inches.

Type IN-30—List price each..... **2.50**


IN-28

Type IN-31—Plugs in between attachment cord and electric outlet, either of set or preferably at appliance. Additional inductance for better filtering. Works best mounted by bracket directly on interfering appliance. Size 1⅜ x 3 inches.

Type IN-31—List price each..... **3.00**

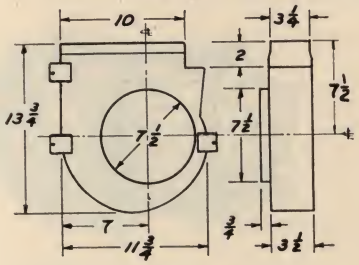

IN-42

Type IN-42—Designed for use in the more serious cases of radio interference from power lines and appliances. Provided with inductance as well as capacitance for thorough filtering action. Plugs into electric outlet. Radio set or interfering device plugs into receptacle of the filter. Recommended for use between interfering device and power line. Size 2½ x 3¾ inches. Provided with mounting ring. Rated at 6 amps. for 110-220v. A.C.

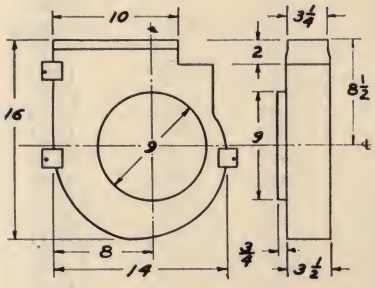
Type IN-42—List price each..... **7.50**

ELECTRIC BLO-FANS

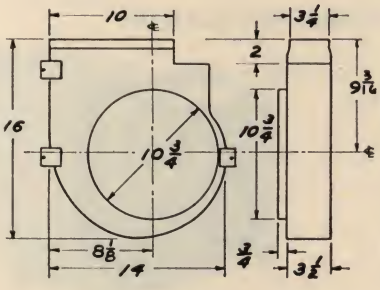
DIMENSIONAL DATA



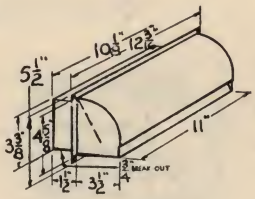
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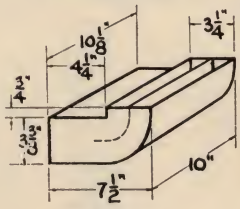
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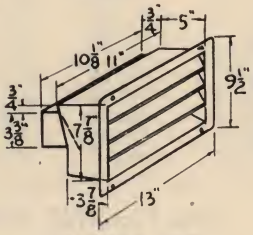
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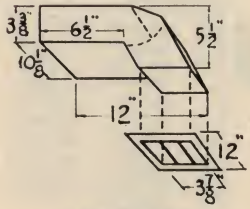
4 WALL CAP



1A ELBOW

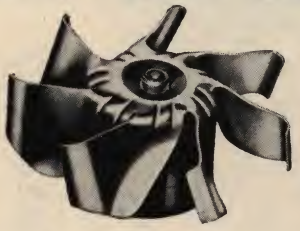


2A WALL CAP



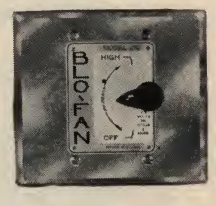
3 EAVE CAP

EXCLUSIVE BLO-FAN BLADE



One piece blade is the secret of its superiority. The propeller portion scoops up the air while the blower portion expels it with great force through the duct.

9 SPEED CONTROL



Exclusive nine position control switch allows the housewife to operate her Blo-Fan ventilator at the proper speed required to prevent air pollution at any time. It is supplied with Model 210 Blo-Fan only.

EASIER TO CLEAN







No Tool Needed

Grille and motor assembly easily removed for cleaning by unscrewing center cap.

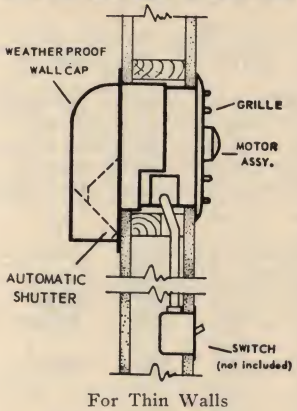
Motor fully enclosed; rubber mounted for quietness, cooled by the air stream.

No.	Model	Actual Discharge	Approx. Free Air	Speeds	Watts	List Price Each
206	Junior	175	400	1	38	**$25.10**
208	Standard	300	700	1	58	**28.75**
210	Deluxe	500	1200	9	136	**45.00**

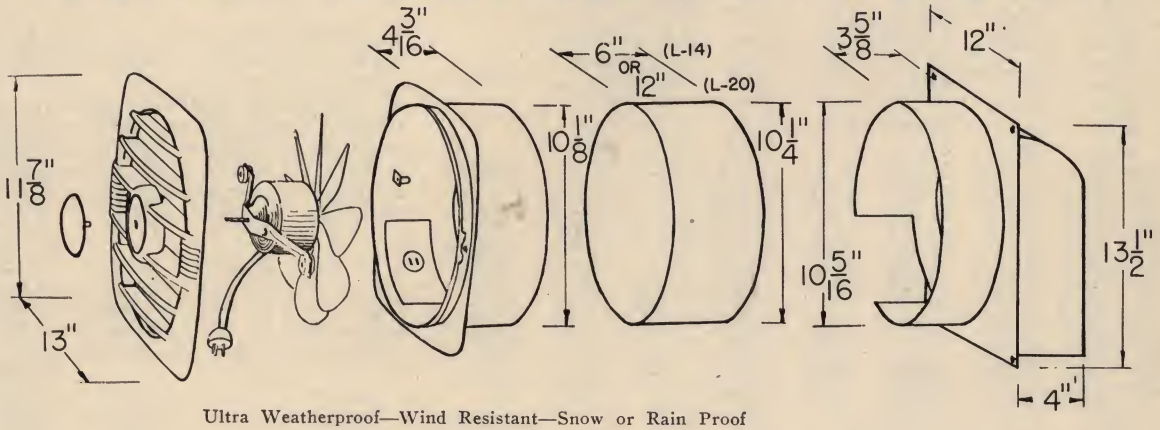
BLO-FAN ATTACHMENTS

1A Elbow (for vertical discharge)	**$2.95**
2A Wall Cap (for horizontal discharge-thick walls)	**5.50**
3 Eave Cap (for overhanging eaves)	**5.50**
4 Wall Cap (for horizontal discharge-thin walls)	**4.50**

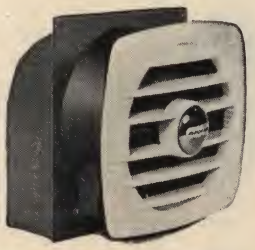
AEROFAN SIDEWALL VENTILATORS (Fully Automatic)



For Thin Walls



Ultra Weatherproof—Wind Resistant—Snow or Rain Proof



Wall switch operated—Fan starts, shutter opens. For sidewall installation, to fit any wall thickness. Wall switch operated—contains automatic shutter which opens when fan starts, closes when it stops. Exterior wall cap is completely weather-resistant and shuts out cold, wind and rain, even while fan is in operation.

Easiest to install—Adjust housing to wall thickness, nail wall cap to framing (or brick in). Motor supports slip over mounting studs in housing. Grille is held by center cap.

Easiest to clean—Unscrew center cap, remove grille, lift out motor and blade for cleaning.

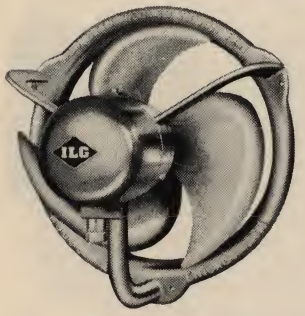
Capacities—No. 245 has capacity to completely change air in an average kitchen once in every two minutes. No. 243 capacity to change air in kitchenette or bath once in every two minutes.

No.	Blade	Adjusts	Grille	List Price Each
245-S	10″	4½″- 8″	White Plastic	**$34.25**
245-L	10″	8 ″-14″	White Plastic	**36.10**
243-S-P	8″	4¼″- 8″	Painted	**27.80**
243-S-C	8″	4¼″- 8″	Chrome	**29.70**
243-L-P	8″	8 ″-14″	Painted	**29.40**
243-L-C	8″	8 ″-14″	Chrome	**31.10**

NOTE: A 3-speed control switch (No. 60, List $7.00) is available as optional equipment with Model No. 245 Aerofan.

ILG ELECTRIC VENTILATING EQUIPMENT

"SELF-COOLED MOTOR" PROPELLER FAN



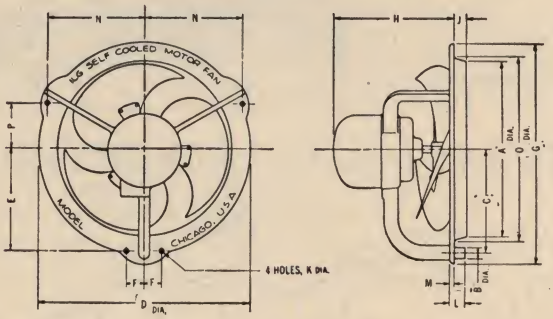
Propeller Fans have the patented Ilg Self-Cooled motor providing the low operating cost of an open motor with the protection of the fully enclosed motor. Fan wheel and motor are dynamically balanced to assure freedom from vibration, quiet operation and long bearing life. Sizes 163 and larger are equipped with ball bearings. Made of cast aluminum or of steel. Furnished in attractive, durable green finish.

ALTERNATING CURRENT—CONSTANT SPEED, ONE PHASE, 60 CYCLE

Size	R.P.M.	C.F.M.	Motor H.P.	Decibel Rating	List Price Each 115 Volts	List Price Each 230 Volts
63SH	2750	250	1/50	50	**$31.50**	**$31.50**
83SH	1550	350	1/125	47	**35.70**	**35.70**
103SH	1550	500	1/75	46	**46.20**	**46.20**
123SH	1550	1000	1/20	54	**72.45**	**72.45**
163SH	1140	1700	1/16	53	**121.80**	**121.80**
183SH	1140	2600	1/6	56	**172.20**	**172.20**
213SH	1140	3600	1/5	58	**211.05**	**211.05**
243SH	855	4700	1/4	54	**280.35**	**280.35**
303SH	685	7800	3/8	61	**421.05**	**421.05**
363SH	570	11000	5/8	62	**577.50**	**577.50**
423SH	490	15500	7/8	61	.....	**743.40**
483SH	490	23300	1-3/4	65	.....	**919.80**

50 Cycle speeds and capacities are approximately 5/6 those shown for 60 Cycles.

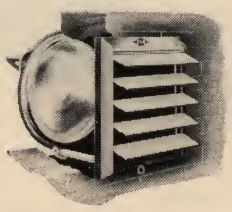
TYPE "Q" FAN, DIMENSIONS IN INCHES

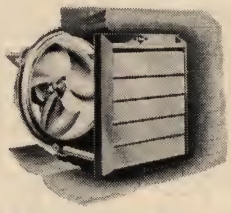


Size	A	B	C	D	E	F	G	H
63	6¼	9/16	3⅞	8½	3 13/16	¾	8½	5¼
83	8¼	¾	4¾	10	4½	¾	10½	6⅛
103	10¼	⅞	6	12¼	5⅞	⅞	13 1/32	7⅛
123	12 5/16	1	7 1/16	14¾	7 1/16	1	15½	9½
163	16 5/16	1	9⅝	19½	9⅜	1 3/32	20⅜	12⅛
183	18⅜	1¼	11 1/16	22	10 11/16	1 5/16	23⅜	12⅝
213	21⅜	1 7/16	13	25¾	12½	2¼	27⅛	14⅛
243	24 9/16	1⅝	14¾	29⅜	14¼	2 9/16	31 3/16	16½
303	30½	1 15/16	20¼	37½	19¼	3¼	40½	17⅞
363	36½	2⅜	24 1/32	45½	23 11/16	3	48⅝	23

Size	J	K	L	M	N	O	P
63	¾	7/32	9/16	3/16	3 23/32	6¾	1½
83	⅝	9/32	¾	¼	4¼	8⅝	2
103	¾	9/32	⅞	9/32	5⅜	10⅞	2½
123	13/16	9/32	1	5/16	6½	13⅛	2⅞
163	1⅛	11/32	1⅜	⅜	8½	17⅜	4
183	1¼	13/32	1⅝	½	10⅛	19¼	4⅝
213	1 7/16	15/32	1⅞	9/16	11⅝	22½	5⅜
243	1 11/16	17/32	2 3/16	⅝	13½	25 11/16	6⅛
303	2½	17/32"x23/32" SLOT	2⅞	9/16	17⅝	32⅜	8⅜
363	3¼	17/32"x23/32" SLOT	3⅞	13/16	21⅛	38¼	11⅛

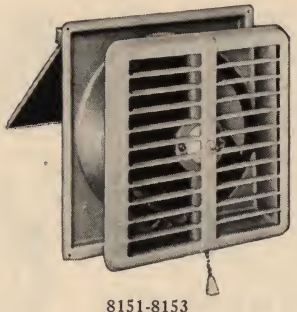
ILG AUTOMATIC SHUTTERS



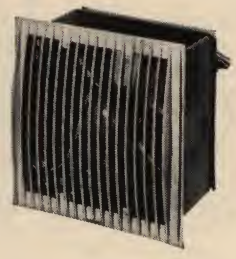


No.	Shutter Size	For Fan Size	List Price Each
638	8"	8"	**$9.45**
639	10"	10"	**13.65**
640	12"	12"	**14.70**
641	16"	16"	**19.95**
642	18"	18"	**26.25**
643	21"	21"	**36.75**
644	24"	24"	**43.05**
645	30"	30"	**65.10**
646	36"	36"	**93.45**
647	42"	42"	**136.50**
648	48"	48"	**182.70**
649	54"	54"	**219.45**
650	60"	60"	**310.80**
651	72"	72"	**347.55**

ILG ELECTRIC KITCHEN VENTILATORS



8151-8153
LC-10

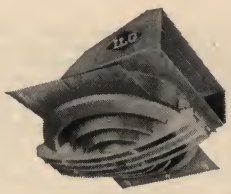


8091
AUTOMATIC BUILT-IN
ILGETTE

LC-10 No. 8151-8153 Built-in Ilgette, French Gray cabinet, silver finish metal grille, pull chain operation. Type "Q" fan wheel for extra quietness—more air.

10" Automatic Built-In Ilgette No. 8091, French Gray cabinet, mirror finish, aluminum grille, small auxiliary motor for full automatic operation from wall switch. Quiet—operates smoothly, freely for years on end. Ceiling Ilgette kitchen ventilator full capacity for thorough ventilation without sacrificing super-quiet operation. Operated from wall switch.

No.	Model	Sleeve Adjust.	TCFM Air Capacity	List Price Each
8151	10" LC Built-In Ilgette	4¼" to 6"	500	**$45.00**
8153	10" LC Built-In Ilgette	5¾" to 9"	500	**45.00**
8091	10" Automatic Built-in Ilgette	8½ to 13"	500	**84.42**



8132

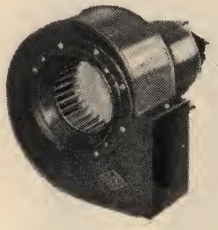


8131

8132	10" Fan Unit Only	.....	500	**53.05**
8131	Wall Unit Only	.....	....	**12.60**

ILG BLOWERS AND VENTILATORS

TYPE "B" VOLUME FANS

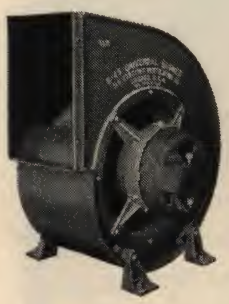


TYPE "B"

For all types of blow-in or exhaust duty where low pressure, small volume quiet operation are required. Particularly adapted for applications in offices, toilets, projection booths, telephone booths, kitchens, etc., where air is moved through ducts. In five sizes and 12 capacities. Die-cut housing mounted on common cast base with motor. Permits simplified mounting for any angle of discharge.

SIZE	R. P. M.	H. P.	Free Air C. F. M.	List Price Each A. C. 110 or 220 V. 60 Cy.— 1 Ph.	220 or 440 V. 60 Cy.— 3 Ph.
B 9	1100	1/100	180	$89.25	.....
B 9	1750	1/20	275	87.15	.....
B 12	1140	1/20	410	128.10	.....
**B 12	1750	1/6	630	106.05	.....
B 15	855	1/15	600	201.60	.....
B 15	1140	1/7	790	149.10	.....
**B 15	1750	1/2	1200	215.25	$279.30
B 18	855	1/7	1000	261.45	276.15
B 18	1140	1/3	1340	290.85	329.70
**B 18	1750	1 1/4	2050	.441.00	401.10
B 21	855	1/3	1580	387.45	313.95
B 21	1140	3/4	2100	439.95	378.00

* These units should not be used for free air deliver where quietness is essential.

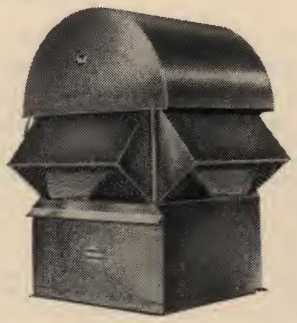


TYPE "BC" DIRECT-CONNECTED CENTRIFUGAL FANS

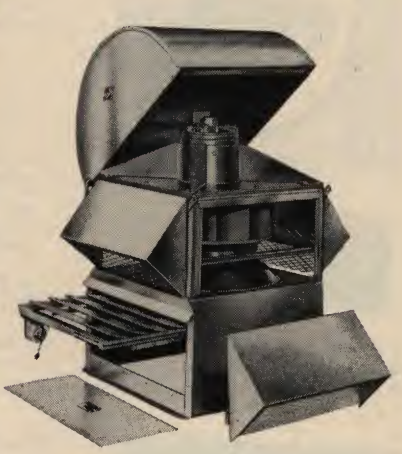
Load limiting type with backward curved blades for all ventilating and air conditioning application. The direct-connection of the motor and the wheel saves space, weight, time and cost. Provides permanent alignment. 10 sizes, with 28 motor speed variations for a complete working range of capacities.

60 CYCLE ALTERNATING CURRENT

Size	R.P.M.	Static Pressure ¼" CFM	List Price Each 2-3 PHASE 220 or 440 Volts	550 Volts	List Price Each 1 PHASE 110 Volts	220 Volts
BC25	1140	1170	$401.10	$432.60	$462.00	$428.40
	1750	1960	411.60	441.00	493.50	447.30
BC30	1140	2200	439.95	471.45	532.35	476.70
	1750	3600	450.45	480.90	.....	511.35
BC35	855	2350	477.75	518.70	594.30	526.05
	1140	3400	492.45	531.30	626.85	547.05
	1750	5470	813.75	.....	.....	.....
BC40	855	3750	531.30	662.55	698.25	585.90
	1140	5300	710.85	750.75	.....	.....
	1750	8375	994.35	1032.15	.....	.....
BC45	685	4220	749.70	789.60	.....	810.60
	855	5570	761.25	801.15	.....	834.75
	1140	7700	922.95	.....	.....	.....
BC50	685	6080	935.55	962.85	.....	1018.50
	855	7850	968.10	1008.00	.....	1069.95
	1140	10780	1129.80	1170.75	.....	.....
BC55	570	6600	904.05	943.95	.....	977.55
	685	8300	976.50	1016.40	.....	1093.05
	855	10700	1003.80	1043.70	.....	.....
BC60	570	8900	971.25	1011.15	.....	.....
	685	11020	1043.70	1083.60	.....	.....
	855	14200	1197.00	1256.85	.....	.....
BC65	570	12550	1453.20	1510.95	.....	.....
	685	15400	1653.75	1711.50	.....	.....
	855	19700	1827.00	1882.65	.....	.....
BC70	570	14700	1729.35	1787.10	.....	.....
	685	18150	1977.15	2038.05	.....	.....
	855	23180	2271.15	2332.05	.....	.....



TYPE "PRV" POWER ROOF VENTILATORS

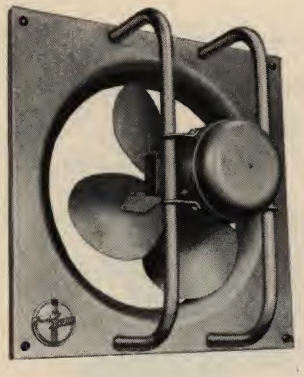


The "PRV" power roof ventilators, consisting of a housed direct-connected centrifugal fan and motor, now offer positive controlled ventilation independent of wind or weather conditions in 11 sizes, 40 speeds, in capacities from 400 to 25,300 cfm. providing air deliveries over the unusually large range of pressures from fee air to 1½" static pressure. The weather-tight housing contains the complete fan unit and air control accessories eliminating the need of an expensive high profile curbing and fitting of air. control accessories into the roof or curbing section. Easily and quickly installed, wired and serviced.

220-440 VOLTS, 3 PHASE, 60 CYCLE

Size*	RPM	TIP Speed	O Static CFM	HP	List Prices Each PRV Ventilator	Grav. Shutter	Motor Op. Shutter
PRV15	1750	3530	400	1/20	$248.85	$ 10.50	$ 63.00
	3450	7000	820	1/3	266.70	10.50	63.00
PRV25	855	2740	1000	1/16	342.00	15.75	68.25
	1140	3650	1200	1/8	354.90	15.75	68.25
	1750	5600	1830	1/2	383.25	15.75	68.25
PRV30	855	3350	1850	1/8	447.00	21.00	73.50
	1140	4470	2240	1/3	469.00	21.00	73.50
	1750	6860	3350	1 1/4	489.30	21.00	73.50
PRV35	685	3270	2200	1/6	469.00	27.30	79.80
	855	4080	2900	1/2	496.65	27.30	79.80
	1140	5430	3850	3/4	515.55	27.30	79.80
	1750	8340	6000	2 1/4	640.50	27.30	79.80
PRV40	685	3770	3500	1/3	562.00	37.80	90.30
	855	4710	4450	1/2	577.50	37.80	90.30
	1140	6280	5850	1 1/4	616.35	37.80	90.30
	1750	9630	9100	4 1/2	711.90	37.80	90.30
PRV45	570	3550	4000	1/3	693.00	45.15	97.65
	685	4270	4750	7/8	720.30	45.15	97.65
	855	5320	6100	1 3/8	740.25	45.15	97.65
	1140	7100	8450	2 1/2	811.65	45.15	97.65
PRV50	570	3960	5500	1/2	826.00	69.30	121.80
	685	4720	7000	7/8	851.55	69.30	121.80
	855	5940	8900	2 1/4	904.05	69.30	121.80
	1140	7920	10850	4	974.40	69.30	121.80
PRV55	490	3740	6500	1/2	876.00	72.00	170.65
	570	4370	7350	1 1/4	812.98	72.00	170.65
	685	5250	9500	1 1/2	837.41	72.00	170.65
	855	6550	11800	2 3/4	900.35	72.00	170.65
PRV60	490	4100	8500	7/8	1011.00	88.32	186.97
	570	4770	10400	1 1/4	931.01	88.32	186.97
	685	5730	12400	2 1/4	923.29	88.32	186.97
	855	7150	15700	4 3/4	1025.92	88.32	186.97
PRV65	490	4460	11500	1 3/4	1181.00	99.36	198.01
	570	5190	13200	2 7/8	1144.49	99.36	198.01
	685	6230	16000	5	1328.64	99.36	198.01
	855	7780	20000	9 1/4	1444.18	99.36	198.01
PRV70	490	4800	13500	1 3/4	1323.00	128.72	227.37
	570	5580	16800	2 7/8	1254.19	128.72	227.37
	685	6710	20200	5	1441.15	128.72	227.37
	855	8380	25300	9 1/2	1675.08	128.72	227.37

* The lowest speed in each size provides the most quiet operation.





PVS-24 FAN

TOTALLY ENCLOSED BALL BEARING MOTORS AND BALL BEARING PILLOW BLOCKS

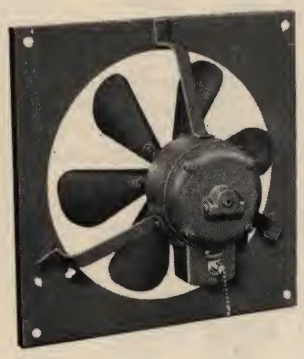
PEERLESS ELECTRIC EXHAUST FANS

Extremely quiet, variable speed, attractively designed fan for stores, restaurants, hotels, offices, and similar high-class installations. Specially designed capacitor motors, and perfectly balanced extra wide blades are responsible for the extremely quiet operation of these fans.
Motors are totally enclosed to exclude dirt and moisture, and are designed to permit installation and operation either in a vertical or horizontal position. Finish in an attractive Buckingham gray.

Model No.	Fan Dia.	Capacity C.F.M.	Motor H.P.	R.P.M. High	Panel Size	115/230 V—60 Cycle—1 Phase One Speed List Price Each	Two* Speed List Price Each	Three Speed List Price Each	220/440 V 3-Phase 1-Spd.† List Price Each	Inlet Guard List Price Each
PVS-16	16″	2150	1/8	1100	24″	**$87.00**	**$98.00**	**$123.00**	**$87.00**	**$13.00**
PVS-18	18″	2900	1/6	1100	26″	**104.00**	**115.00**	**140.00**	**104.00**	**15.00**
PVS-24	24″	4550	1/4	820	34″	**130.00**	**141.00**	**181.00**	**130.00**	**18.00**
PVS-30	30″	7375	1/2	660	40″	**190.00**	**200.00**	**241.00**	**190.00**	**20.00**

* Two Speed Unit for 1-Phase Can Be Connected for 115V only.

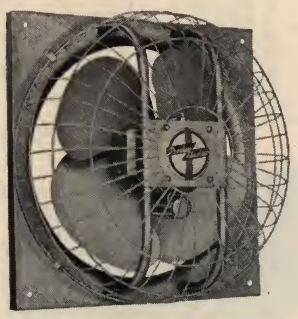
† Control Not Furnished for 3-Phase Units.
Controllers Are Furnished for All 1-Phase Units.



PV-0 10″ BLADES

PV-0—10-inch, six-blade fan. Attractive and efficient for small rooms, dens, offices and other similar small locations. It is furnished complete with cord, plug and convenient pull switch. Motor totally enclosed induction type—will not produce radio interference.

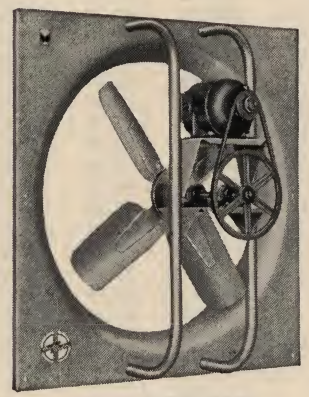
Types PVS-1 and PVS-2 fans are four-blade style, recommended for installation in homes, tea rooms and small grills, where the larger equipment is not required. These models are equipped with a totally enclosed capacitor motor which will not produce radio interference. These extremely quiet operating fans are finished in an attractive gray.



PV-2 WITH INLET GUARD PRICED WITHOUT GUARD

Model No.	Fan Dia.	Capacity F.A.	C.F.M. .1″ S.P.	Motor H.P.	R.P.M. High	Panel Size	115 V 60 Cycle 1 Phase Sleeve Brg. List Price Each	115 V 60 Cycle 1 Phase Ball Brg. List Price Each	230V 60 Cycle 1 Phase Sleeve Brg. List Price Each	230V 60 Cycle 1 Phase Ball Brg. List Price Each	3-Speed Control List Price Each	Inlet Guard List Price Each
PV-40	10″	400	....	50 Watts	1400	13″	**$34.00**	....	....	....	**$16.00**	....
PVS-1	12″	1350	850	1/20	1600	16″	**43.00**	**$46.00**	**$46.00**	**$49.00**	**16.00**	**$10.00**
PVS-2	16″	1750	1350	1/20	1600	20″	**46.00**	**49.00**	**48.00**	**52.00**	**16.00**	**11.00**

PEERLESS INDUSTRIAL ELECTRIC EXHAUST FANS



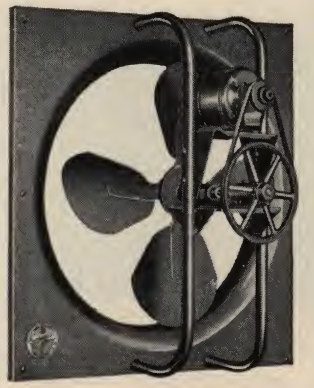
PVB-36 BELT FAN

Designed for applications which require the removal of large air volumes by fans operated at slow speeds. The variable pitch motor pully permits adjusting of the fan speeds to meet the exact air volume requirements.

Model No.	Motor H.P.	Fan R.P.M.	Fan Dia.	F.A.	Capacity CFM 1.1″ S.P.	Capacity CFM ⅛″ S.P.	Capacity CFM ¼″ S.P.	Capacity CFM ⅜″ S.P.	115/230Volt Single-Phase 60-Cycle* List Price Each	220/440 Volt Three-Phase 60-Cycle* List Price Each
PVB-24	1/4	720	24	4850	3250	2900	2300	....	**$126.00**	**$128.00**
PVB-24A	1/3	780	24	5200	3850	3400	2650	1900	**133.00**	**135.00**
PVB-24B	1/2	890	24	5950	5000	4600	3200	2900	**158.00**	**151.00**
PVB-30	1/3	575	30	7200	4900	4350	2300	....	**154.00**	**156.00**
PVB-30A	1/2	650	30	8150	6200	5750	3600	2050	**179.00**	**172.00**
PVB-30B	3/4	740	30	9300	7450	7100	4850	3650	**202.00**	**193.00**
PVB-36	1/2	550	36	12000	9000	8200	4950	....	**207.00**	**200.00**
PVB-36A	3/4	630	36	13750	11500	10600	7200	4900	**231.00**	**221.00**
PVB-36B	1	690	36	15000	13200	12400	9150	6500	.....	**250.00**
PVB-42	3/4	500	42	15100	11000	10200	6400	....	**252.00**	**242.00**
PVB-42A	1	550	42	16700	12700	11900	7900	4700	**362.00**	**271.00**
PVB-42B	1-1/2	615	42	18600	14900	14100	10200	8000	.....	**294.00**
PVB-48	1	430	48	19400	13400	12300	7200	....	**391.00**	**301.00**
PVB-48A	1-1/2	470	48	21100	15400	14400	10000	....	.....	**324.00**

*Single voltage—220 V or 440 V—if dual voltage 220/440 required add $15.00 to list.

PEERLESS VENTILATTIC FANS



PAT-42 FAN

For Use in Cooling Homes, Stores, Clubs, Theaters and Hotels. Modernly designed with an attractive all-metal panel finished in a Buckingham Gray. Economically operated and easily installed.

Model No.	Fan Dia.	Capacity—C.F.M. F.A.	Capacity—C.F.M. .1" S.P.	Motor H.P.	Fan R.P.M.	Panel Size	List Price Each—115-V—60-Cycle—1 Phase 1-Speed	List Price Each—115-V—60-Cycle—1 Phase 2-Speed	2 Speed Control
PAT-30	30"	5450	3280	1/4	520	40	**$108.00**	**$126.00**	**$18.00**
PAT-36	36"	8250	5000	1/4	400	46	**125.00**	**143.00**	**18.00**
PAT-36A	36"	9000	5500	1/3	435	46	**138.00**	**195.00**	**36.00**
PAT-42	42"	11000	6770	1/3	365	52	**166.00**	**224.00**	**36.00**
PAT-42A	42"	13100	8060	1/2	435	52	**191.00***	**266.00**	**36.00**
PAT-48	48"	14500	9000	1/2	375	58	**214.00***	**290.00**	**36.00**
PAT-48A	48"	16250	10100	3/4	420	58	**237.00***	.....	....

*1/2 and 3/4 H.P. Motors Are 115/230 Volts. 2-Speed Motors Are 115V Only.

TYPE HAT HORIZONTAL VENTILATTIC FANS

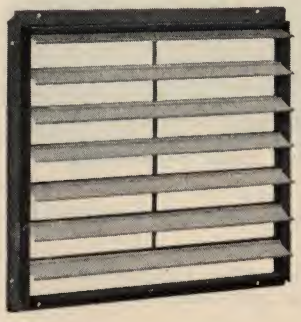


HAT-30 FAN WITH SHUTTER

Attic fans for low attic spaces prevalent in the ranch type of homes. Can be installed quickly and economically to exhaust the daytime heat and reduce temperatures 15° to 25° when operated only for a short time. Silently and efficiently bring in that cool evening air for comfort throughout the home. Quiet operation, belt-driven at slow speed.

Model	Fan Dia.	Cap. C.F.M.	Cap. C.F.M. 0.1" S.P.	Motor H.P.	High R.P.M. Fan	115V Single* Speed List Price Each	Ship. Wgt.	Recom. Shutter Size	Shutter List Price Each
HAT-24	24"	4,150	3,280	1/4	585	**$102.00**	96	31 x 31	**$45.00**
HAT-30	30"	4,900	5,000	1/4	520	**118.00**	124	37 x 37	**55.00**
HAT-36	36"	7,450	5,500	1/4	400	**139.00**	152	43 x 43	**65.00**
HAT-36A	36"	8,100	6,770	1/3	435	**151.00**	155	43 x 43	**65.00**
HAT-42	42"	9,900	9,000	1/3	365	**186.00**	195	49 x 49	**75.00**
HAT-42A	42"	10,100	10,100	1/2	435	**209.00**	200	49 x 49	**75.00**

* Price does not include shutter.



WALL SHUTTERS

ALUMINUM LOUVERS — Completely automatic operation. 85° opening and counter balanced operation allows fan to operate at rated capacity giving full fan efficiency.

WEATHER SEALED — Weather strip welded to four sides of frame. Shrouded for protection from high winds. Bearings and tie rod placed inside shutter.

QUIET — Louver edges equipped with clinched felt strips. Weighted louvers prevent rattling.

Size	List Price Each	Ship. Wt.	Outside Dimension
10 x 10	**$13.00**	5	13¼ x 13¼
12 x 12	**15.00**	5	15¼ x 15¼
16 x 16	**18.00**	8	19¼ x 19¼
18 x 18	**20.00**	9	21¼ x 21¼
24 x 24	**26.00**	11	27¼ x 27¼
30 x 30	**$33.00**	15	33¼ x 33¼
36 x 36	**58.00**	21	39¼ x 39¼
42 x 42	**63.00**	27	45¼ x 45¼
48 x 48	**73.00**	33	51¼ x 51¼

CEILING SHUTTERS



Made of heavy reinforced strip. Corrosion resistant finish.

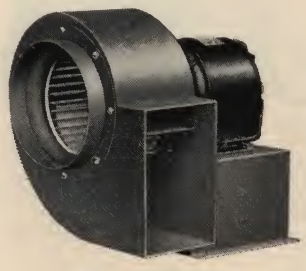
Ceiling louvers can be installed practically flush on ceiling.

Trim strips provided on ceiling installation cover all exposed parts of frame.

SAFETY—Fusible link on ceiling louvers insures automatic closing of shutter in case of fire in accordance with Fire Underwriters' requirements.

Size	List Price Each	Ship. Wt.	Outside Dimension
25 x 25	**$34.00**	11	28 x 28
31 x 31	**45.00**	15	34 x 34
37 x 37	**55.00**	21	40 x 40
43 x 43	**65.00**	27	46 x 46
49 x 49	**75.00**	33	52 x 52

PEERLESS DIRECT-DRIVE UTILITY BLOWERS

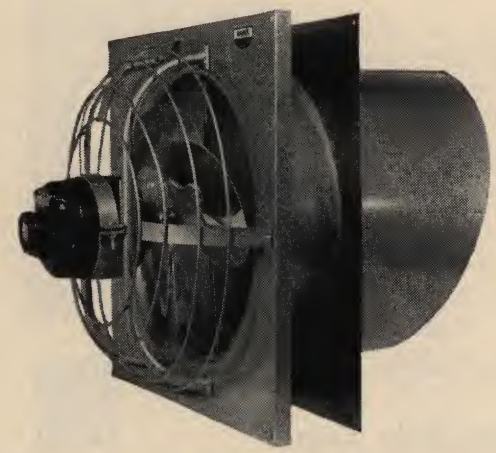


NO 1½ BLOWER

Mod. No.	Mot. H.P.	Blo'r R.P.M.	115/230 V 60 Cy. 1 Ph. List Price Each	220/440 V 60 Cy. 3 Ph. List Price Each	Drive Cover List Price Each	Performance—C.F.M. ⅛" S.P	¼" S.P.	⅜" S.P.	½" S.P.	⅝" S.P.	¾" S.P.	1" S.P.	Inlet Dia.	Outlet Width
0	1/6	1725	**$61.00†**	....	....	169	144	112	...	...	...	...	4½	3⅜
1	1/20	1150	**74.00**	**$79.00**	**$10.00**	330	250	100	...	...	...	...	6	4¼
1	1/8	1750	**72.00**	**77.00**	**10.00**	560	515	470	420	365	300	...	6	4¼
1¼	1/8	1150	**76.00**	**82.00**	**10.00**	560	480	395	290	...	...	...	8	5⅜
1¼	1/3	1750	**87.00**	**94.00**	**10.00**	920	870	815	765	710	655	540	8	5⅜
1½	1/6	850	**117.00**	**124.00**	**11.00**	700	625	515	...	...	...	...	9	6⅛
1½	1/3	1150	**112.00**	**119.00**	**11.00**	1065	1005	880	830	740	610	...	9	6⅛
1¾	1/2	850	**132.00**	**137.00**	**13.00**	1545	1485	1450	1420	1380	1340	...	10	7⅛
1¾	3/4	1150	**148.00**	**152.00**	**13.00**	1955	1890	1815	1795	1685	1580	1275	10	7⅛
2	1/2	690	....	**210.00**	**15.00**	2170	1855	1435	1190	...	...	...	12	10⅛
2	3/4	850	**287.00**	**221.00**	**15.00**	2485	2390	2215	2005	1820	1630	...	12	10⅛
2	2	1140	**419.00**	**248.00**	**15.00**	3620	3444	3275	3080	2825	2690	2385	12	10⅛

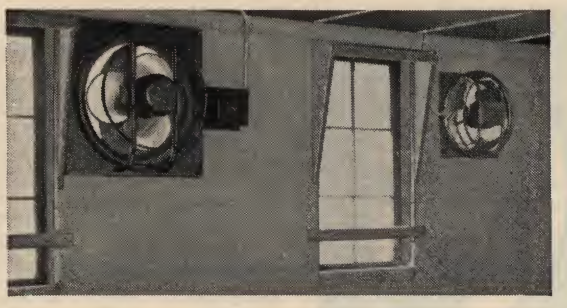
† Available in 115 volt motor only.

RADEX VENTILATING FAN UNITS





Automatic Control



Completely assembled ready to install for the dairy barn, poultry house, hog house, horse barn and many industrial installations such as factory, foundry, restaurants, etc.

The Radex **Air System** will provide comfortable (draft free) movement of air in all parts of the building more hours per day, whether it's windy, cold or hot—Will provide:

Much drier building in all corners, walls, ceiling and floor.

Radex distribution and control of fresh air will provide greater cow comfort and poultry flock health.

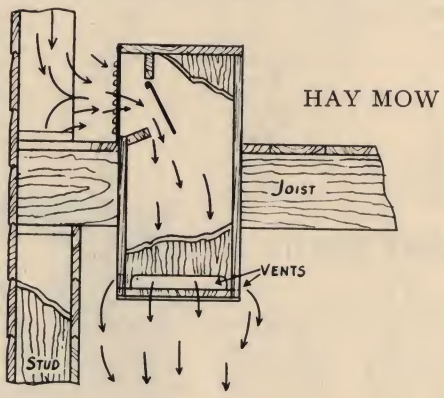
Comfortable cows and poultry eat more and drink more—thus produce more. If you don't like your cows at least save your building from rapid decay.

Everything furnished, including fan unit complete, thermostat, motor overload protection with manual start and stop switch with baked enamel finish mounting box.

Fan Type	Dia.	Motor RPM	H.P.	*⅛" Static Pressure C.F.M.	List Price Each
1418	14"	1725	1/6	900	**$109.50**
1427	14"	1725	1/6	1300	**109.50**
1434	14"	1725	1/4	1700	**112.50**
1823	18"	1725	1/4	2400	**129.50**
1827	18"	1725	1/4	3000	**129.50**

*Capacity against 15 miles per hour wind.

RADEX INTAKES



Radex intakes will only let in the quantity of air demanded by the thermostatically controlled ventilators. They are not affected by wind or weather.

Radex intakes can be figured on the basis of one intake for every 400 cu. ft. of air per minute fan capacity in good constructed barns. Random openings and cracks should be closed or plugged to avoid excessive intake of air from the wrong places, which may cause undesirable drafts.

Radex Intakes—List price each **$9.50**

FEATURES:

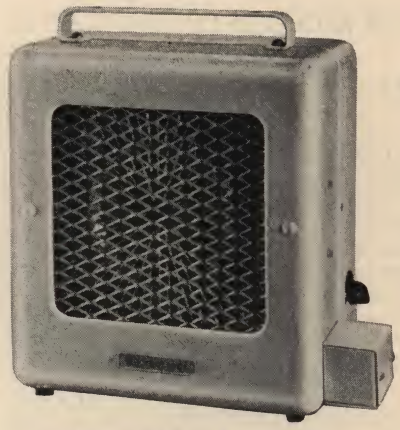
1. Completely assembled compact unit ready to install.
2. Venturi frame and air tunnel made of heavy structural steel, securely welded into integral (one piece) assembly with finishing plate for the outside wall. Luxuriously finished inside and out with a baked bell blue hammeroid enamel.
3. Butterfly damper—to keep outside air from blowing in when the fan is not running. Opens easily on needlepoint bearings. Damper door closes and seals against venturi flange. Housing tunnel considerably larger inside diameter than dampers, so it cannot freeze and jam with snow or ice. Takes very little effort to open.
4. Butterfly damper located at the inside end of the housing tube —(at inside of wall) placing them near the fan blade so that with circulation, immediate opening will occur.
5. Smooth quiet running propellers with bright aluminum blades and cadmium spider, that delivers great quantity of air.
6. Integral motor mount frame and fan guard can be detached from housing assembly by simply removing four bolts when necessary to service motor, fan or dampers.
7. Inclosed split phase motors securely mounted on clamp type bracket.
8. Motor and fan all located on unit so that it is inside of the building.
9. The entire unit baked enamel, Bell Blue hammeroid finish inside and out including thermostat mounting box.
10. Can be installed in round or square opening.
11. Clean smooth design throughout to prevent accumulation of dirt and dust that will retard air flow.

RADEX BARN FAN SELECTION CHART

Pounds of Animal Weight in Barn	Actual Air Cap. Req'd	Two Volume Fan Models	Sin. System Fan Mod.	Number of Int's to Use
Up to 10,000 lbs.	900	1-1418	1-1418	4
11,000 to 15,000 lbs.	1800	2-1418	1-1427	4
16,000 to 20,000 lbs.	2200	1-1418 1-1427	1-1434	5
21,000 to 25,000 lbs.	2600	1-1418 1-1434	1-1823	6
26,000 to 30,000 lbs.	3300	1-1418 1-1823	1-1827	7
31,000 to 35,000 lbs.	3700	1-1427 1-1823		8
36,000 to 40,000 lbs.	3900	1-1418 1-1827		9
41,000 to 45,000 lbs.	4300	1-1427 1-1827		10
46,000 to 50,000 lbs.	5200	1-1418 1-1427 1-1827	**1-1823** **1-1827**	**12**

If only one fan unit is to be used select size capable of delivering 80 to 90% of the combined air capacity cu. ft. per min.

ELECTROMODE ALL-ELECTRIC HEATERS

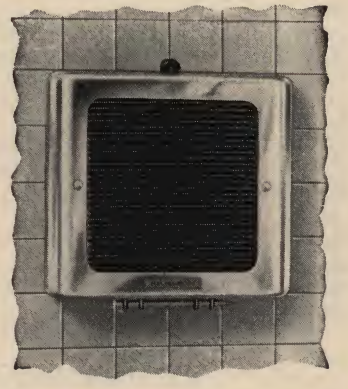


Model FA-15 Automatic

MILK HOUSE Heaters with built-in automatic controls and safety switch fan-circulates heat. Equipped with cast-aluminum safety heating element, eliminates danger of fire, shock or burn. Keeps area dry, prevents freezing, provides comfortable working temperature in milk house. Also used to heat brooder pens and outbuildings.
All models for 50-60 cycle, single phase. All units equipped with built-in automatic temperature control. Range 40°-80°. Finished in baked-on, milk-white enamel. Cord and plug furnished as extra equipment.

No.	Model	Watts	Volts	B.T.U.	Shipping Wgt. Lbs.	List Price Each
6170E	FA-15	1500	110/120	5122	15	**$52.14**
6170D	FA-15	1500	230/240	5122	15	**52.14**
6170G	FA-30	3000	230/240	10245	30	**101.40**

BATHROOM HEATER with cast-aluminum heating element supplies immediate, clean, fan-circulated heat for bathroom or any small room. Saves money on fuel bills. Handy for drying hair and clothing. Available in white or chrome finish, automatic with built-in thermostat or manual control. Thermostat range 55° to 85°.



Model WJA-13 Automatic

No.	Model	Control	Finish	Watts	Volts	B.T.U.	Wgt.	List Price Each
2015A	WJ-13	Manual	White	1320	110	4507	15 lbs.	**$27.45**
2015H	WJ-13	Manual	Chrome	1320	110	4507	15 lbs.	**32.90**
2015J	WJA-13	Automatic	White	1320	110	4507	15 lbs.	**43.45**
2015M	WJA-13	Automatic	Chrome	1320	110	4507	15 lbs.	**48.95**

Wall Box Opening: 9⅞" high, 11⅛" wide, 3¾" deep. Front Plate: 11½" high, 12⅞" wide. Extends 2" from wall.



Model AN-30A with Built-in Automatic Controls

INDUSTRIAL UNIT HEATERS in sizes from 1500 to 45,000 watts are ideally suited for heating hard-to-heat areas in factory, office, isolated locations, or any spaces where intermittent and high efficiency heating is desired. The Safety Heating Elements attain full heat rapidly. Adjustable louvers permit directing heat into working zone. Motor-driven fan keeps warm air circulating. May be thermostatically controlled for greatest economy.

Portable-Suspension type models available from 1.5 kw to 7.5 kw—5,122 B.T.U. to 25,613 B.T.U. Suspension models available from 10 kw to 45 kw—34,150 to 153,675 B.T.U.

			Element Spec.			Motor Spec.				Automatic Thermostat					Manual Control Switch No. 3185
No.	Model	Dim. Inches	V.	Ph.	Amp.	HP	V.	Wt. Lbs.	List Price Each	No.	Temp. Range ° F	Wt. Lbs.	List Price Each	Contactor (Relay)	Price
3257	AN-30	11½ wide	120	1	25.25	1/100	115	30	**$75.90**	1680	55-85	2	**$17.20**	will handle	Included in Heater
3257-J	3 KW 13 high 10,245 BTU 11¼ deep		240	1	12.75	1/100	115	30	**75.90**	1680	55-85	2	**17.20**	load direct	
3257-M	*AN-30A		240	1	12.75	1/100	115	31	**86.91**	Automatic Control Built-in Heater Cabinet Range 40°-90°					

*Furnished with switch, 10′ heavy duty cord, plug.



Model WA
Automatic Wall
Heater

Automatic Down-Flo Wall Heater is controlled by a built-in thermostat. Maintains constant room temperature within an operating range of 55° to 85°. Down-flo principle distributes heat evenly at floor level. Suitable for heating large cold rooms.

Available in 1500, 2000, 3000, 4000 capacities with or without automatic thermostat. Silver grey hammerstone finish, 1500 watt unit in 120 or 240 volts—all other for 240 volt service.

No.	Model	Control	Finish	Watts	Vts.	B.T.U.	Wgt. Lbs.	List Price* Each
3990S	WA12-15S	Automatic	Grey	1500	120	5122	38	**$86.52**
3990T	WA12-15S	Automatic	Grey	1500	240	5122	38	**86.52**
3990M	WA12-20S	Automatic	Grey	2000	240	6830	38	**92.30**
3990N	WA12-30S	Automatic	Grey	3000	240	10245	38	**99.23**
3990W	WA12-40S	Automatic	Grey	4000	240	13660	45	**108.48**

Wall Box Opening 18¼" high, 14¼" wide, 4⅛" deep. Front Plate: 21" high, 17" wide. Extends 1" from wall.
*3-wire grounded neutral service. S-Single Heat.

Portable Automatic Heater, designed for large rooms, has carrying handle for easy portability. Built-in thermostat with operating range from 55° to 85° permits individual room temperature control.

Available in two automatic models 3000 or 4000 watts, 240 volts. Silver grey finish.

No.	Model	Control	Finish	Watts	Volts	B.T.U	Ship. Wt.	List Price* Each
3995J	PA-30	Automatic	Grey	3000	240	10245	46	**$98.18**
3995K	PA-40	Automatic	Grey	4000	240	13660	52	**109.73**

SIZE: 23½" high, 17" wide, 6½" deep. 6′ cord and plug.
*3-wire grounded neutral service.

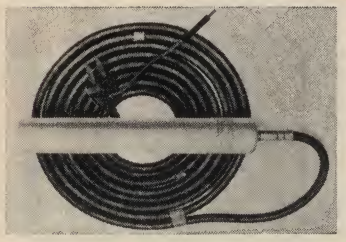


Model PA
Automatic Portable
Heater

Electromode makes electric space heaters for home, farm, industry in all sizes and models to meet any heating requirement. All approved by Underwriters' Laboratories.

SMITH-GATES ELECTRIC PRODUCTS

AUTOMATIC WATER WARMER

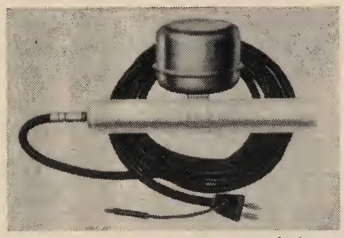


Automatic water warmer to 50° F. Important single factor affecting egg production throughout fall and winter months. Unit 8" long, 1¼" diameter. Insulated for immersion in water without fear of electric shock. Rustproof, entirely automatic. Equipped with 6 ft. neoprene cord.

Anti-freeze water warmer. Inexpensive, simple, effective unit to protect drinking pans from freezing. Uses only 70 watts of current, which under normal conditions keeps 12 quarts of water in round container from freezing in zero weather. If unit is plugged in when not in water or accidentally removed from water pan, a built-in high temperature (60°) cutout switch will turn off heat before any damage can be done. Also will prevent water from getting too warm, assuring complete safety. Equipped with 6 ft. neoprene cord.

No.	Watts	Vac	Std. Pkg.	Wt. Lbs.	List Price Each
7050—Anti-Freeze	70	110	10	8	$4.25
15050—Warm Water	150	110	10	9	5.55
25050—Warm Water	250	110	10	9	6.30
50050—Warm Water	500	110	5	9	9.60

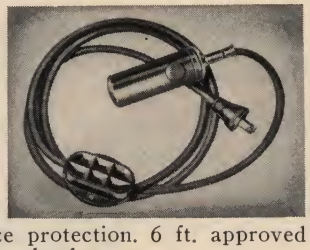
FLOATING STOCK TANK WATER WARMER AND DE-ICER



Plug into 100 VAC outlet. Place copper float on surface of water in tank, so 500 watt heater is just below surface of water. Will keep open so stock can drink when temperature drops below zero. Heating unit attached by spring clips to bottom of float. Can be used as an immersion heater by removing float. Water warmer rust-proof, sealed watertight, operated by thermostatic control. Equipped with 10 feet neoprene cord. 50° fixed calibration. (Use No. 50050 listed above for replacement heater.)

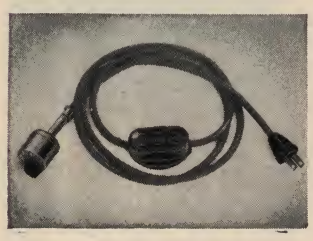
No.	Std. Pkg.	Wt. Lbs.	List Price Ea.
FG50050—De-icer	5	16	$11.90

SG TEMSTAT



Adjustable, non-immersion, temperature thermostat. Automatic control (between 30° and 120° F.) of thermotape, or any plug-in heating device of 1000 watts or less. For controlling soil temperatures, in hot beds or greenhouse bench warming for anti-freeze protection. 6 ft. approved SJ cord, atachment plug and triple-outlet box.

No.	Watts	Vac		Std. Pkg.	Wt. Lbs.	List Pr. Each
TSA10	1000	110	Adj. Temp. Control	10	8	$7.95

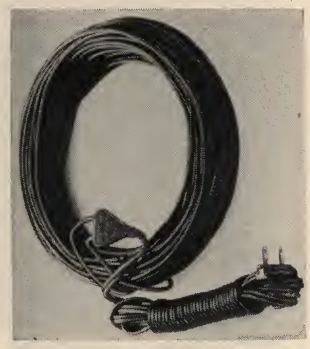


SG ADJUSTAT

Adjustable, non-immersion, temperature thermostat. Gives automatic control when used with thermotape or other heating devices, simply turn control knob for a desired temperature operation. Complete with 6 ft. approved SJ cord, attachment plug, triple-outlet box for connecting 1 to 3 lengths of thermotape (will maintain 3 installations, totaling less than 900 watts, at a constant temperature). Range 20° to 80° F.

No.	Watts	Vac	Description	Std. Pkg.	Wt. Lbs.	List Pr. Each
TSA935	900	110	Adj. Temp. Cont.	10	7	$5.75

LINO-O-HEAT



Flexible plastic heating tape to wrap around short lengths of water pipes (to prevent freezing). Meets all the requirements of trailer coach owners. SG insulation supplied to protect water pipes outside of trailers which are generally subjected to extreme air movements. Insulation will conserve heat—also reduce operating costs.

No.	Lgth.	For Pipe	Watts	V-Ak	List Price Each
LH6	6′	1 to 3′	15	110	$1.25
LH12	12′	2 to 6′	30	110	1.95
LH24	24′	1 to 12′	60	110	2.95

FUSED THERMOTAPE

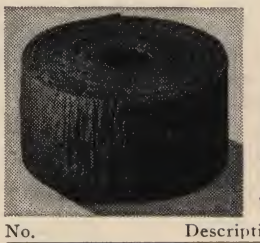


Saves time, trouble, expense—safe and dependable. For use wherever low temperature heat is needed—prevents damaging freeze-ups of water pipes, pumps, roof valleys, gutters, and eaves. Ideal for soil heating, for supplying additional heat in the raising of small animals. Plastic covering is water proof—not affected by oils, greases, mild acids or alkalies. When used with SG thermostats, operation becomes automatic by keeping water lines in use during freezing weather.

No.	Length with Plug	Watts	Std. Pkg.	Wt. Lbs.	List Price Each
TT6	6′	21	10	3	$3.95
TT12	12′	42	10	3	5.50
TTF20	20′	140	10	7	6.15
TTF40	40′	280	5	6	9.75
TTF60	60′	420	5	10	13.35

Packed in Handy Kit Form (with Insulation)

Kit No.	Elect. Tape	Waterproof Insulation	Watts	Std. Pkg.	Wt. Lbs.	List Price Each
TT6K	6′	20′	21	10	5	$4.20
TT12K	12′	40′	42	10	8	5.60
TTF20K	20′	80′	140	10	24	13.30

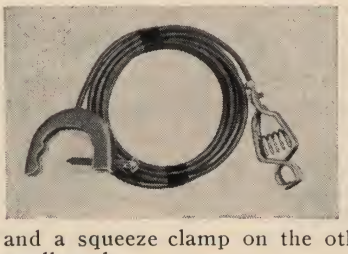


SG INSULATION

Water and Vermin Proof

Pays for itself when pipe and heating tape are covered. Insulation keeps heat on pipes. When used with thermotape (rated) at 7 watts per foot, a thermostat must be used.

No.	Description	List Price Each
WI-20	20 ft. insulation	$0.36



GROUNDING CABLE

Electric shock can be fatal—install Safeline Grounding Cable and avoid taking unnecessary chances. Experience has proven that electric motors should be grounded. Consists of 14 ft. of No. 8 stranded plastic-covered wire, pipe clamp on one end and a squeeze clamp on the other. Shipped singly, mounted on cardboard.

No.	Description	Std. Pkg.	Wt. Lbs.	List Price Each
GL814	Grounding Lead 14′	12	7	$0.95

CHROMALOX PLUG-IN IMMERSION HEATERS



Can be put to work wherever there's an electric outlet. Turns on when the pail of water is placed on the switchhook . . . and switches itself off when the pail is removed. Current turns off if water is boiled off to within a few inches of the bottom of the element. Listed by Underwriters' Laboratories.

120 volts, 1500 watts, copper sheathed element, 2½-foot rubber-covered cord and plug, ready to mount and plug in.

Type PH-15—Electric Heater. List price each.....**$16.95**



A light-weight, portable immersion heater ideal for pails and small vessels. Sliding clip adjustable to hold heater to side of pail. Overall height 26". Brass riser tube provides strength, protection to guard against frequent and rough handling. Ideal where hot water may be wanted in several places, particularly around the farm.

120 volts, 1500 watts, copper-sheathed element; 6-foot rubber-covered cord and plug, ready to plug in.

Type THL—Electric Heater. List price each..... **14.95**



CHROMALOX THERMWIRE FLEXIBLE ELECTRIC HEATING CABLE

A rugged, flexible heating cable consisting of 80-foot loop of nichrome heating wire covered with special fire-resistant, weather-proof, synthetic sheath. Permanently attached to the Thermwire element is a 10-foot rubber insulated cold lead wire section and plug. Connection of Thermwire and lead is sealed in vulcanized rubber making a completely waterproof connection.

Uses—For roofs, gutters and downspouts embedded in concrete or asphalt drives, walks or steps. Wrapped around pipes. Soil heating in hotbeds, greenhouse benches, cold frames.

Safe—sealed at factory against moisture or electric leakage.

CAUTION—Never cut, shorten or lengthen. Metal surfaces in contact with Thermwire should be grounded to prevent shock in case the insulation becomes damaged. **Always turn off electricity before handling.**

CHROMALOX THERMWIRE

No.		List Price
TW-4	(80 ft. for 115V., 400W.) Each	**$10.75**
TW-8	(160 ft. for 230V., 800W.) Each	**22.85**
Bulk Quantities	(Min. 400 ft.) Per Ft.	**.12**

Note—Bulk quantities made up in 80-ft. lengths only.

G.E. FLEXIBLE HEATING CABLE



Has many uses during the winter months. Stop damages with G.E. heating cable sets. Prevents damages to walls and ceilings, ice dams on roofs and gutters, de-icing down spouts.

Heats water pipes to prevent freezing. Just strap cable to pipe, parallel to pipe or wrap around pipe.

Hustles lazy plants out of bed—makes them healthier, too. For hot beds, cold frames or greenhouse benches. Used to start early in the season. Be sure of steady, uniform, invigorating heat so necessary for optimum growth.

Poultry Brooders—Cable provides an effective heat source for any size brooder house.

Floor Heating—In kennels, poultry houses, etc.

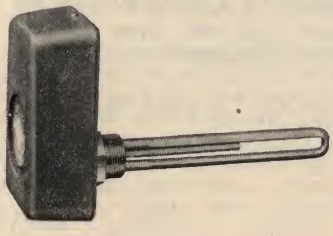
Commercial Uses—To speed flow of oils, tars, asphalts, syrups and other viscous liquids.

Made of chromium alloy resistor wire. (Do not cut or alter length of cable.) Lead covered. All cable sets furnished with weather-proof plug.

No.	Length	Watt	Voltage	List Price Each
HS 11018	30 ft.	180	110	**$ 6.70**
HS 11040	60 ft.	400	110	**11.10**
HS 22080	120 ft.	800	220	**23.00**

CHROMALOX TYPE ARTM IMMERSION HEATERS

With Built-in Thermostat



A compact, thermostatically controlled, screw-in type immersion unit, easily installed in hot water tanks, range boilers and coffee urns.

Suited for the home, summer cottage, hunting lodge, farm, dairy and poultry buildings. Heating element is efficient tubular type used in many new electric water heaters, brazed into a brass 1" pipe-threaded screw plug. Thermostat range is 100° to 170° F.

NEMA Suggested Wattage Ratings for Tank Capacities

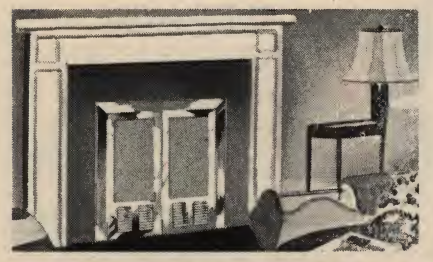
Tank Cap. Gallons	Average Wattage Ratings	Suggested Wattage Ratings: Single Heater Installation	Two-Heater Installation: Upper	Two-Heater Installation: Lower
10	1000 to 1500	1000	—	—
30	1500 to 1750	1500	1000	750
40	2000	—	1250	750
52	2000 to 2500	—	1500	1000
80	3000	—	1500	1500

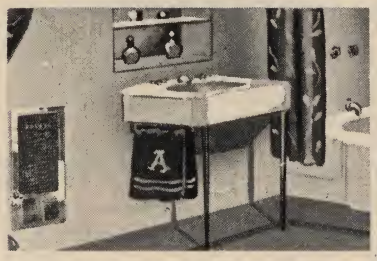
STANDARD RATINGS for 118 or 236 Volts

No.	Watts	Min. Tank Dia. Ins.	Heating Capacity* Gallons per Hour	List Price Each
ARTM 750	750	8	4	**$17.00**
ARTM 1000	1000	10	5	**17.50**
ARTM 1250	1250	12	6½	**17.70**
ARTM 1500	1500	12	7½	**17.90**

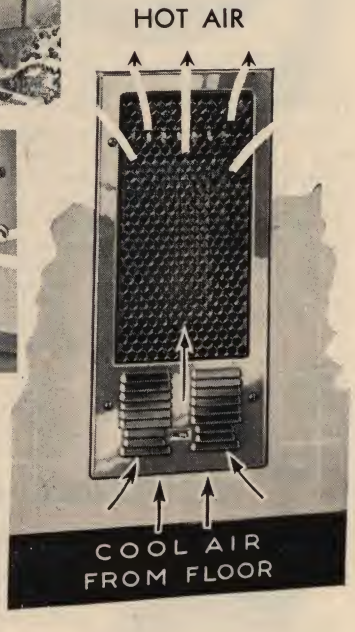
*Based on raising water temperature to 140° F. from inlet temperature of approximately 60° F.

F.A. ELECTRIC QUIKHETER









For use as an auxiliary heater, spring or fall, or at any time during the year that heat is needed. Ideal for quick heat in the bathroom, nursery, bedrooms, living, dining and rumpus rooms, warehouse and office. It is excellent and efficient for drying hair or some articles of clothing that need to be dried quickly.

It is highly efficient because it is an air circulating heater (cool floor level air is drawn up into the heater) and, therefore, heats the entire room. It is a radiant heater. (Heater element is dark red when heated.) Holes in the front of heater are too small for any fingers to be pushed through to touch hot wires.

Types 1000 and 1500 watt heaters, for quick heating and where the room requires more than one heater, can be placed in opposite ends of the room to create complete circulation between them for the entire room to be heated evenly.

Types 2000 or 3000 watt twin heaters for fireplaces in old residences.

Chromium finish front (matt, polished or oxidized copper, brass or bronze finish at an additional cost). Genuine Nichrome wire heating element should never wear out under normal operating procedures. Polished metal reflector of high luster, stain resistant steel.

Air space behind reflector and on both sides prevents over heating of wall and provides additional air circulation. Enclosing box of heavy 16-gauge galvanized steel. Automatic tension adjustment maintains even tightness of the heating element.

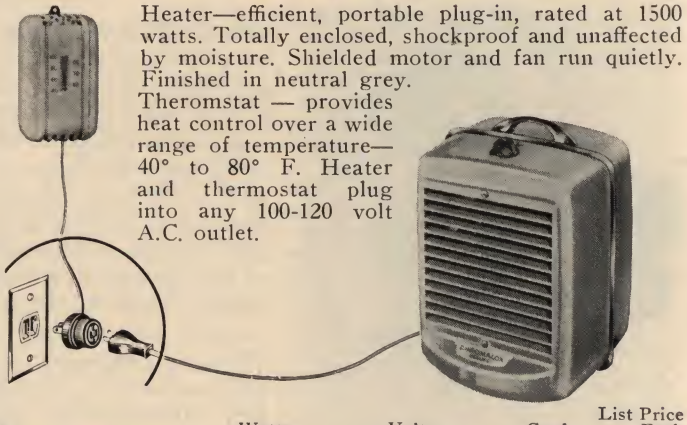
Built-in control switch—120 volt with single pole switch. 240 volt with double switch. Also furnished with built-in thermostatic cutout instead of a single pole switch and having an off position. Can be used the same as a single pole switch.

For the 1000 watt Quikheter No. 14 wire should be used for 25 feet or less, and No. 12 wire for over 25 feet. For 1500 watt heater No. 14 wire for 25 feet or less and No. 14 wire for over 25 feet.

No.	Watts	Volts	Box Size Wide	Box Size High	Box Size Deep	Without Thermostat List Price Each	With Built-in Thermostat No.	With Built-in Thermostat List Price Each
921-10	1000	120	9″	21″	3½″	$36.30	921TH-10	$ 60.00
921-15	1500	120	9″	21″	3½″	36.30	921TH-15	60.00
1921-20	2000	120/240	19″	21″	3½″	72.60	1921TH-20	120.00
1921-30	3000	120/240	19″	21″	3½″	72.60	1921TH-30	125.00

CHROMALOX ELECTRIC HEATERS

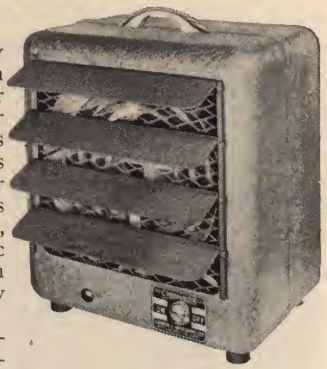
BLOWER TYPE



Heater—efficient, portable plug-in, rated at 1500 watts. Totally enclosed, shockproof and unaffected by moisture. Shielded motor and fan run quietly. Finished in neutral grey.
Theromstat — provides heat control over a wide range of temperature—40° to 80° F. Heater and thermostat plug into any 100-120 volt A.C. outlet.

No.		Watts	Volts	Cord	List Price Each
HF50	Heater	1500	115/120 A.C.	5½′	$18.90
HF51	Heater	1320	115/120 A.C.	5½′	18.90
EC401	Thermostat	15 Amp.	115/120 A.C.	6′	14.95

INDUSTRIAL HEATERS



Sturdily constructed heater, grey crackle finished steel case with handle and rubber feet or pads for portable use. Brackets available for wall mounting. Adjustable louvers direct air up or down. Elements within the heater warm the air drawn in through the back. It is forced out the front by a quiet fan, driven by enclosed-type electric motor. Each heater supplied with 6 feet of heater cord approved by Underwriters' Laboratories.
Controls—A.C. with heater equipment with an on-off manual control toggle switch. D.C. heaters are supplied without manual control switch.

For 60 Cycles, Single Phase. A.C.

No.	Kw.	Volts	BTU Per Hour	Air Temp. Rise °F. Approx.	Air Vol. Cu. Ft. Per Min. Approx.	List Price Each
HF-153	1.5	115 or 230	5118	42	105	$37.75
HF-203	2.0	115 or 230	6824	45	130	44.40
HF-303	3.0	115 or 230	10236	55	160	52.00
HF-403	4.0	230 only	13648	75	160	58.90

CHROMALOX THERMOSTAT



For use with any heater up to 1500 watts, 115/120 volts

Portable—just hang it up and plug in for completely automatic operation. Set dial at chosen temperature and your de luxe heater will automatically maintain comfort as you like it. Plug heater and thermostat into any 115/120 volt outlet. Equipped with 6 feet of rubber covered cord and adapter plug.

Model EC-401—Thermostat.
List price each.....$14.95

CHROMALOX CONTROLS

For air heater—use with Type HF heavy duty heater

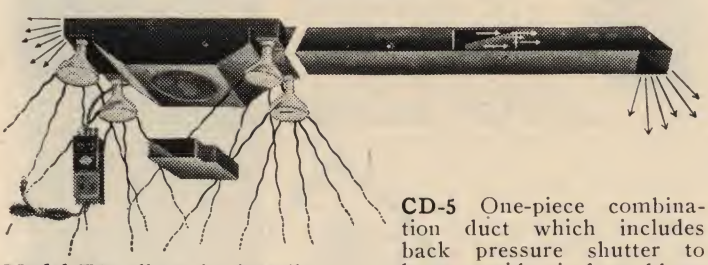


Automatically controls room temperature by turning electric air heater on and off. Can be used to control the air heater directly within the rating of the thermostat; for higher ratings use the thermostat with a magnetic contactor.
Used in offices, homes, storerooms, sub-stations, valve houses and many other places.

No.	115 Volts A.C.	230 Volts A.C.	List Price Each
WR-80			
Max. amps.	25	20	$17.20
Max. watts	2875	4600	17.20

RADEX AIR CONDITIONER

VENTILATES — CIRCULATES — HEATS WITH DUCT



Model E10 elbow for installation where it is desirable to lead duct in a different direction.

CD-5 One-piece combination duct which includes back pressure shutter to keep outside air from blowing in, also has damper to direct air into room. Pressure circulating.

DOUBLE CONTROL (FAN AND HEAT) QUADRUPLE DUTY

An air conditioner unit for the milk house that will ventilate only, circulate only, or will ventilate and circulate at the same time. It will heat independently, or it will heat with the fan in operation. The fan and heat can be set independent of each other at any predetermined differential setting.

There is a damper at each end of this unit which can be opened or closed so that if it is desired to expell all of the air to the outside from one end, it can be done, and also the outside damper can be closed so all of the air can be circulated through the opposite end of the unit. When both dampers are open, air will be circulated and exhausted simultaneously.

This unit will enable ventilation or pressure circulation in a milk house at low room temperatures, since the heater will supplement the loss of heat, if and when reaching danger temperatures. Ventilation or forced circulation is needed mostly during the cold weather when condensation is the greatest, and escape of moisture is difficult due to the fact that the building is closed up tightly. Gravity ventilators cannot be used during cold weather, as heat cannot be expelled from a room when it is needed for protection. Fan can be manually turned off as well as the heat can be manually turned on or off at will, so that if only heat is desired without the fan, it can be done. Or in the summer, when fan operation only is desired, heat can be turned off. The heat can be turned on at will, the same as the Radex unit.

Finish bell blue hammered—motor G.E. totally enclosed—fan 10".

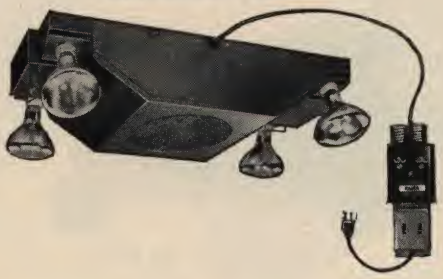
Radex Air Conditioner—ventilates, circulates, heats—dual thermostat ready to plug in with lamps. No. **CD-5** one piece combination duct and **E10** elbow.

No.	Control	Watts	Volts	Ship. Wt.	List Price Each
HF-75A	Automatic and Manual	1000	110	50 lbs.	**$115.90**

Write for any additional information you may need about Cow, Hog, Poultry, Turkey, Horse and Farm Building Ventilation and Heaters.

RADEX AIR CONDITIONER

VENTILATES — CIRCULATES — HEATS WITHOUT DUCT



Completely Automatic—A dual thermostat controls the fan and the heat lamps independently to any settings from 20 to 90 degrees. Select either settings most suited to your conditioning and heating problem.

FEATURES

1. Dual thermostat operates the fan and heat lamps together or at any differential setting. Thermostat range 20 to 90 degrees.
2. Totally enclosed G.E. motor, with 10" fan. Air conditioner expells 250 cubic feet per minute.
3. Utilizes any standard infrared heat lamps. White (or clear) lamps recommended for milk house service. Red (gives no light) lamps recommended for poultry house service. Four lamps—1000 watts.
4. Has 15 feet of high capacity cord, partially retractable.
5. Each lamp has a section which rotates and is adjustable to various positions for directing heat rays.
6. Porcelain lamp sockets.
7. Baked enamel finish inside and out. Bell-blue hammered finish.
8. Complete air conditioner including motor, fan, lamp sockets, dual thermostat assembly with manual switches and cord. Ready to plug into any 110 volt receptacle.
9. Comfort switch for instant heat. It is not necessary to turn up thermostat to obtain heat comfort—just snap on the switch.
10. Fan, or heat can be turned off manually and operated one without the other.
11. Total over-all depth including lamps is only 8¾ inches for low ceilings.
12. Streamlined beauty that blows air from each end of the unit.

No.	Control	Watts	Volts	Ship. Wt.	List Price Each
HF-75	Automatic and Manual	1000	110	40 lbs.	**$106.90**

RADEX ELECTRIC LAMP WARMERS

ONE OR THREE LAMPS UNIT



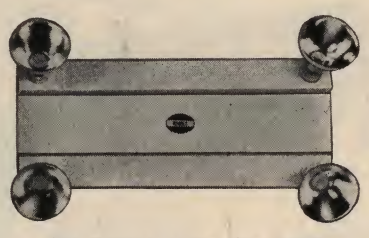
For pig, lamb and chick brooding, well house and pit, car and garage protection. Designed for protection of lamp breakage from water and bumping. Units have brackets for mounting to room wall or ceiling, on hog pen. Can be tilted to direct heat rays to desired angle or spot or part of room.

No.	Lamp	Control	Watts	Volt	Cord	List Price Each*
W10	1	Plug-in	250	110	6′	**$ 5.95**
W15	1	†Thermostat	250	110	12′	**23.95**
W30	3	Plug-in	750	110	12′	**19.95**
W35	3	†Thermostat	750	110	12′	**37.95**

Note—Add $1.20 for 1125 watt capacity.
*With lamps.
†Minneapolis-Honeywell heavy duty thermostat furnished with control.

RADEX INFRARED LAMP HEATERS

SAFE — CLEAN — EFFICIENT



"It Heats Like the Sun"

Protection — Comfort — Light

Many uses — dairy houses, well houses, garages, basement, hog houses, brooding chickens, service stations, rest rooms, etc. Uses standard infared lamps to provide radiant heat that is absorbed by floor, piping and equipment radiated to room atmosphere. Personal comfort and health protection at the flick of a switch. Mounts on ceiling, wall or stand.

"Heats The Floor First"



The answer to milk house heating.

The "Radex" Electric Heater (located in the ceiling), floods the average milk house or small room with infared heat rays, thus obtaining a uniform temperature throughout. It heats like the sun for protection and comfort. Thermostat can be set just above freezing (33 to 38 degrees) for the lowest possible cost of operation.

SPECIAL FEATURES

Any standard infrared heat lamp can be used. Equipped with 12 foot retractable high capacity cord. Lamps are adjustable to various positions for directing heat waves.
Porcelain sockets.

Finish inside and outside—bell blue hammroid. By-pass switch—for instant radiant heat for comfort, use snap switch to by-pass the thermostat. Snap lamp on when entering and off when leaving. When switch is off, the heat lamps are controlled by thermostat, maintaining the desired setting.

Total over-all depth including lamps is 8¾ inches, for low ceilings.

Complete with sockets, thermostat, quick snap-on switch and 12 foot cord. Ready to plug in.

RADEX FOUR LAMP—WITH THERMOSTAT, MOUNTING BOX AND SNAP SWITCH. (Less lamps. Only fixture is wired.)

No.	Control	Finish	Watts	Volts	Ship. Wt.	List Pr. Each
R 40 ET	Auto. & Manual	Bell Blue	1000	110 or 220	16 lbs.	$39.95

RADEX FOUR LAMP—SAME AS R 40 ET EXCEPT LESS THERMOSTAT, MOUNTING BOX AND SNAP SWITCH

R 41 ET	None	Bell Blue	1500	110 or 220	16 lbs.	22.00

THERMOSTAT, MOUNTING BOX AND SNAP SWITCH (Not Wired)

No.	Range	Finish	Thermostat	Watts	Volts	Ship. Wt.	List Price Each
TP 70	30-65°	Gold	Minneapolis Honeywell	1500	110 or 220	3 lbs.	$17.95

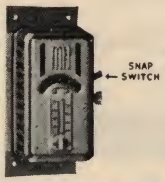


INFARED HEAT LAMP

Reflector type—will last up to 5000 hours, 250 watts.

No. R4—Lamp. List price each.....$1.10

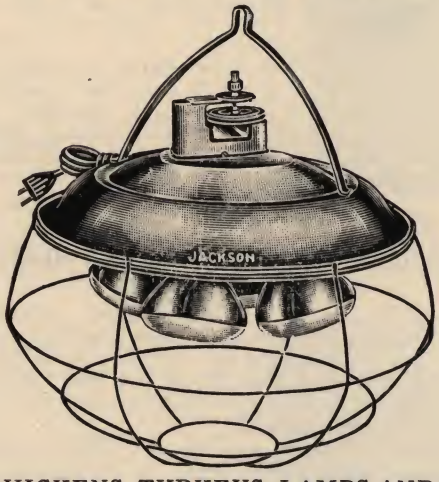
MINNEAPOLIS HONEYWELL THERMOSTATS



No. TP65—Range 30°-65°, watts 1500, volts 110, manual switch, 12 ft. cord, gold finish.
List price each.....$19.95
No. T61—Thermostat only.
List price each..... 16.00



JACKSON BROODER PRODUCTS



FOR CHICKENS, TURKEYS, LAMBS AND HOGS

4-Light Infrared Brooder—ideal for farm or brooder plant. Brooding capacity 20 sq. ft. Accommodates 300-325 chicks. Wafer thermostat automatically controls two to four lamps and can be adjusted to regulate temperature so that lamps burn as needed. 18" dia. steel reflector—infrared baked enamel finish—6 ft. approved cord and plug—completely wired, ready to install.

No.	Description	Ctn. Quan.	Std. Pkg.	Ship. Wt.	List Price Each*
7414TG	Complete with thermostat and guard	1	10	6	$15.00
7414G	Brooder with guard	1	10	6	10.00
1714T	Brooder with thermostat less guard	1	10	4	12.50
7414	Brooder only less thermostat	1	10	4	7.00
Guards only		1	10	2	3.00

250 watt R40 infrared heat lamps
*Lamp extra

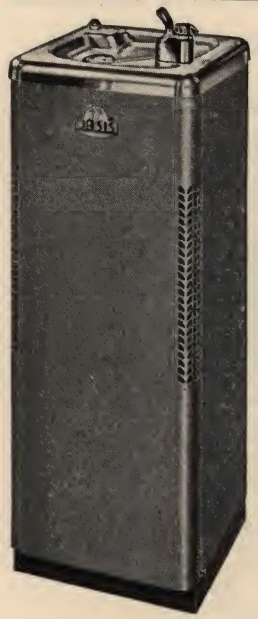


1-LIGHT INFRARED BROODER

1-Light Infrared Brooder—This Universal Brooder is versatile in application—ideal for brooding poultry of all varieties, pigs, lambs, turkeys, calves, etc. Can also be used in many other ways on the farm. Completely assembled and factory wired—ready for use by plugging in electric outlet.

No.	Description	Ctn. Quan.	Std. Pkg.	Ship. Wgt.	List Price Each
7112	Brooder	1	10	2	$3.40
7112G	Brooder with guard	1	10	2	3.80

250 watt R40 infrared heat lamp



EBCO OASIS DRINKING WATER COOLERS

Recommended for — offices, retail stores, hotels, theatres, building lobbies, banks, supermarkets, gas stations, small factories, waiting rooms, schools, churches and hospitals.

Stainless steel top — white porcelain steel optional on request. Capacity—5 gallons per hour, 5 quart storage. Serves about 60 people in offices or schools, 35 in light industry.

Condensing unit — hermetic, convention-cooled. ⅛ H.P. for 115 volt, 50-60 cycles, single phase, alternating current only. Dimensions—height 43⅝", width 54", depth 15½". Weight 145 lbs.

No. OP-5-S Cooler—List price each **$243.50***

14000 Foot Pedal Bubbler operator. When installed at Factory only.. **4.25**



WITH REFRIGERATED COMPARTMENT

Recommended for—executive and general offices, small businesses, physicians, dentists, laboratories, first-aid rooms and wherever pressure-type water cooler with large refrigerated compartment can be used to advantage.

Stainless steel top — white porcelain steel top available when specified.

Refrigerated compartment — sealed-in cold-compartment. Lined throughout (including door) with gleaming, lifetime metal. Insulated on all sides, including door. Keeps beverages, vaccines or pharmaceuticals at a constant temperature adjustable between 36° and 46°. Compartment 13" high x 12" deep x 10" wide. Push-button door latch has integral lock and keys.

Capacity—3 gallons per hour. 5 quart storage. Serves about 35 people in offices, 20 in light industry, 35 in hospitals. Refrigerated compartment holds about 32 small bottles or 9 quart bottles (upright).

Controls — water temperature controlled by adjustable thermostat located behind removable front panel of cabinet. Compartment temperature controlled by adjustable thermostat conveniently accessible at rear of cabinet.

Condensing unit—hermetic, forced air-cooled. 1/6 H.P. for 115 volt, 50-60 cycle, single phase, alternating current only. Height 45¾", width 15¼", depth 16½". Weight 170 lbs.

No. OP-3-R Cooler—List price each..... **$172.25***

* Price includes $6.00 charge for 4 year protection on coolers with 5 year warranty.



EBCO OASIS AIR DRIER

Get Rid of the Moisture in Your Basement with Oasis Air Drier

(Electric Dehumidifier)

Make your basement as **livable** as the rest of your house! Put an end to sweaty pipes . . . rust . . . mold . . . wet walls and floors . . . warped woodwork . . . slow-drying laundry. Runs by electrical refrigeration—plug into any A.C. outlet!

- Removes up to 3 gallons of water from the air every 24 hours!
- Protects furniture, rugs, books, clothing, tools and machinery!

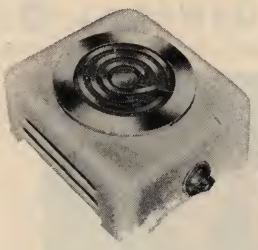
115/60/A.C. Floor space 12¼" wide x 18" long, 16½" high.

Model	Motor	Cu. Ft. Cap.	Wgt.	List Pr. Ea.
J20	⅛ H.P.	8000	60 lbs.	$137.95*

* Includes 10% federal excise tax and $5.00 for 5 year warranty.

CHROMALOX ELECTRIC TABLE STOVES

With Fast, Long-Life Electric Range Units



Single burner. Height 5⅛", width 11¼", depth 13⅝". Including switch.

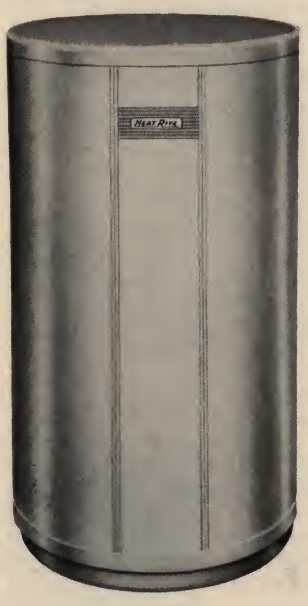


Double burner. Height 6", depth 12", length 21½". Including switch.

Attractive, quality-built stoves, ideal for dozens of uses. The cooking units controlled by three-heat switches; frames heavy construction; and the acid-resisting sanitary porcelain enamel top finish is easy to keep clean.

118-volt stoves available with either one or two 1200-watt or 2000-watt units; 236-volt stoves can be had with either one or two 1250-watt or 2100-watt units.

No.	Unit	Volts	Watts	List Pr. Ea.
STM-1201	Single	120	1200	**$25.75**
STM-1251	Single	236	1250	**25.75**
STM-2001	Single	120	2000	**27.85**
STM-2101	Single	236	2100	**27.85**
Add $4.00 for D.C.				
TTM-A-2401	Double	120	2400	**$39.90**
TTM-A-2501	Double	236	2500	**39.00**
TTM-A-4000	Double	120	4000	**43.90**
TTM-A-4201	Double	236	4200	**43.90**
Add $6.00 for D.C.				



HEATRITE ELECTRIC WATER HEATER

Superbilt—Valuebilt

Immersion Type Heating Elements

Fiberglas Insulation

Extra Heavy Galvanized Tank

Perfex Twin Contact Thermostat

Built-in Heat Trap

Cold Water Diffuser

Underwriters' Approved

Thrifty 50 model equipped with wrap-around band type heating element.

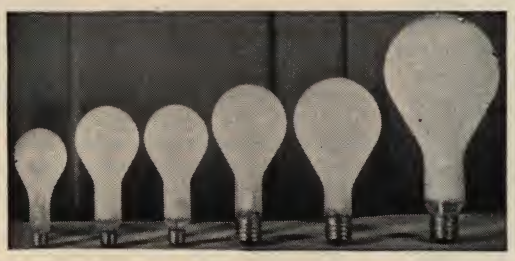
SPECIFICATIONS

No.	War. Yrs.	Gals.	Elements	Hgt.	Dia.	Wgt. Lbs.	List Pr. Ea.
			Valuebilt—Immersion Type				
31S	3	31	600W.	46"	22¼"	225	$113.00
31SM	10	31	600W.	46"	22¼"	225	119.00
31D	3	31	600-1000W.	46"	22¼"	225	123.00
31DM	10	31	600-1000W.	46"	22¼"	225	129.00
50S	3	50	1000W.	53"	24¼"	265	133.00
50SM	10	50	1000W.	53"	24¼"	265	139.00
50D	3	50	1000-1500W.	53"	24¼"	265	143.00
50D	10	50	1000-1500W.	53"	24¼"	265	149.00
			Superbilt—Immersion Type				
52D	5	52	1000-1500W.	49"	26¼"	275	$153.00
52DM	10	52	1000-1500W.	49"	26¼"	275	159.00
66D	5	66	1250-2000W.	60"	26¼"	350	177.00
66DM	10	66	1250-2000W.	60"	26¼"	350	185.00
86D	5	86	1500-2500W.	69"	26¼"	390	191.00
86DM	10	86	1500-2500W.	69"	26¼"	390	199.00
			Thrifty 50—Wrap-Around Element				
50WD	1	50	1000-1500W.	53"	24¼"	250	$132.56
50WDM	5	50	1000-1500W.	53"	24¼"	250	138.56

GENERAL ELECTRIC LAMPS



15W 25W 40W 50, 60 75W 100W 150W



150W 200W 300W (Med.) 300W (Mog.) 500W 750W 1000W

115, 120, and 125 Volts

GENERAL ELECTRIC INSIDE FROSTED LAMPS

For most general lighting purposes. Inside frosting diffuses the light and helps eliminate shadows and glare. Light output is practically the same as for clear lamps. Outside surface is smooth and easily cleaned.

Watts	Bulb	Base	Max. Over-all Lgth. Inches	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
15	A-15	Med.	3½	15A15	120	$0.13
25	A-19	Med.	3 15/16	25A	120	.13
40	A-19	Med.	4¼	40A	120	.14
50	A-19	Med.	4 7/16	50A	120	.14
50	†GA-25	Med.	4 7/16	50GA	60	.40
60	A-19	Med.	4 7/16	60A	120	.14
75	A-19	Med.	4 7/16	75A	120	.16
100	A-21	Med.	5 5/16	100A	120	.16
150	PS-25	Med.	6 15/16	150	60	$0.20
†150	R-40	Med.	6⅛	150R/W	24	1.05
200	PS-30	Med.	8 1/16	200/IF	60	.27
300	PS-30	Med.	8 1/16	300M/IF	60	.40
300	PS-35	Mog.	9⅜	300/IF	24	.70
500	PS-40	Mog.	9¾	500/IF	24	1.00
750	PS-52	Mog.	13 1/16	750/IF	6	3.05
1000	PS-52	Mog.	13 1/16	1000/IF	6	3.30

† Decorative enamel bowl.

† White Indirect-Lite.

G-E DAYLIGHT LAMPS (115-125 Volts)

Produce light approximating daylight. Used where color discernment is important.

60	A-19 I.F.	Med.	4 7/16	60A/D	120	.25
100	A-23 I.F.	Med.	6 1/16	100A/D	120	.30

G-E CLEAR LAMPS

Used in enclosed diffusing equipment or shielded reflectors which protect the eyes from glare.

150	PS-25	Med.	6 15/16	150/CL	60	$0.20
200	PS-30	Med.	8 1/16	200	60	.27
300	PS-30	Med.	8 1/16	300M	60	.40
300	PS-35	Mog.	9⅜	300	24	.65
500	PS-40	Mog.	9¾	500	24	.95
750	PS-52	Mog.	13 1/16	750	6	2.90
1000	PS-52	Mog.	13 1/16	1000	6	3.10
1500	PS-52	Mog.	13 1/16	1500	6	4.75

DISCOUNT SCHEDULE

TO PURCHASERS WITHOUT CONTRACT

Minimum List Value for Immediate Delivery to One Point:	Discount
Less than $5.00	0%
$ 5.00	20%
$15.00 (Less than a Standard Package)	25%
An order including at least one Standard Package	30%

A standard package of large lamps is defined as a package, as packed by the manufacturer, of that "Standard Package Quantity" designated for each lamp in the manufacturer's price schedule, and the lamps in such a standard package may not be of different specifications.

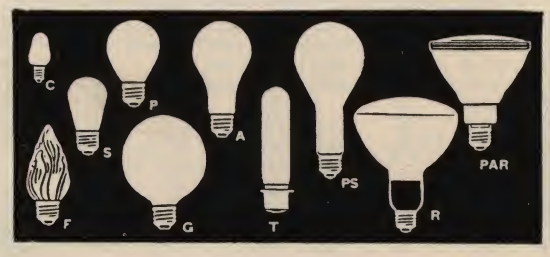
To Purchasers Under Form E Contract		Discount for Immediate Delivery to One Point		
Basis (Net Value of Purchases) of Form E Contract.	$ 600	On a purchase of $15 or more list value or on a purchase of less than $15 list value which includes a standard package.	32%	On purchases of broken packages amounting to less than $15 list value. 27%
	1,500		33%	28%
	3,500		34%	29%
	7,500		35%	30%
	15,000		36%	31%
	20,000		37%	32%
	35,000		38%	33%
	65,000		39%	34%
	100,000		40%	35%
	150,000		41%	36%
	200,000		42%	37%

HOW TO ORDER

Order by Lamp Ordering Abbreviations. Correct voltage must be specified except for Series, Fluorescent, Sun, Mercury, Glow, Miniature and Photo Lamps. For lamps not specifically listed specify Size, Volts or Amps, Bulb, Base, Finish and Service.

BULB SHAPES

C – Cone
S – Straight side
P – Pear shape
F – Flame shape
G – Globe shape
T – Tubular
R – Reflector shape
PS – Pear straight neck
A – Standard line
PAR – Parabolic



BULB DESIGNATIONS

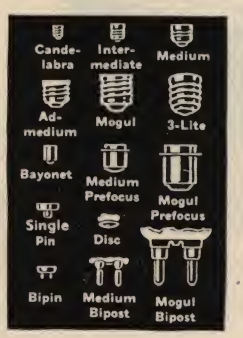
The letter in a bulb designation indicates its shape and the figure indicates its approximate diameter in eighths of an inch. Thus, a G-25 is a globular bulb approximately 3⅛ inches in diameter.

BULB FINISHES

Clear | Inside Frosted | Clear Daylight | Frosted Daylight | White Bowl | Silvered Bowl



BASE TYPES



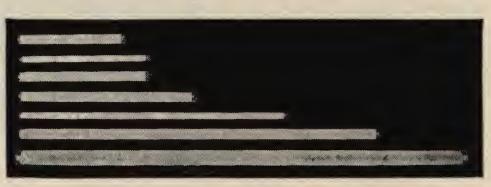
* List Prices do not include Federal Excise Tax.

GENERAL ELECTRIC LAMPS

G-E GENERAL LINE FLUORESCENT LAMPS

Lower wattage fluorescent lamps, 6 to 20 watts, are used for showcases, niches, bed lamps. etc., where space is small or where low amounts of light are desired. Higher wattage lamps, 30 to 85 watts are used in homes, stores, offices, industrial plants and other applications of general lighting.

F14T12
F15T8
F15T12
F20T12
F30T8
F40T12
F85T17



Bulb	Nom. Lamp Watts	Color♦	Lamp Ordering Abbrev.	Std. Pkg. Qty.	*List Price
Miniature Bipin Base					
9"—T-5 (⅝" diam.)	6	Standard Cool Wh.	F6T5/CW	24	$0.80
		White	F6T5/W	24	.80
		Daylight	F6T5/D	24	.80
12"—T-5 (⅝" diam.)	8	Standard Cool Wh.	F8T5/CW	24	.90
		White	F8T5/W	24	.90
		Daylight	F8T5/D	24	.90
21"—T-5 (⅝" diam.)	13	Standard Cool Wh.	F13T5/CW	24	1.00
		White	F13T5/W	24	1.00
Medium Bipin Base					
15"—T-12 (1½" diam.)	14	Standard Cool Wh.	F14T12/CW	24	.80
		Standard Warm Wh.	F14T12/WW	24	.80
		White	F14T12/W	24	.80
18"—T-8 (1" diam.) ①	15	Standard Cool Wh.	F15T8/CW	24	.65
		De Luxe Cool Wh.	F15T8/CWX	24	†
		Standard Warm Wh.	F15T8/WW	24	.65
		De Luxe Warm Wh.	F15T8/WWX	24	†
		White	F15T8/W	24	.65
		Daylight	F15T8/D	24	.65
		Soft White	F15T8/SW	24	.75
18"—T-12 (1½" diam.)	15	Standard Cool Wh.	F15T12/CW	24	.80
		De Luxe Cool Wh.	F15T12/CWX	24	†
		Standard Warm Wh.	F15T12/WW	24	.80
		De Luxe Warm Wh.	F15T12/WWX	24	†
		White	F15T12/W	24	.80
		Daylight	F15T12/D	24	.80
		Soft White	F15T12/SW	24	.90
24"—T-12 (1½" diam.) ①	20	Standard Cool Wh.	F20T12/CW	24	.80
		De Luxe Cool Wh.	F20T12/CWX	24	†
		Standard Warm Wh.	F20T12/WW	24	.80
		De Luxe Warm Wh.	F20T12/WWX	24	†
		White	F20T12/W	24	.80
		Daylight	F20T12/D	24	.80
		Soft White	F20T12/SW	24	.90
36"—T-8 (1" diam.) ①	30	Standard Cool Wh.	F30T8/CW	24	.80
		De Luxe Cool Wh.	F30T8/CWX	24	†
		Standard Warm Wh.	F30T8/WW	24	.80
		De Luxe Warm Wh.	F30T8/WWX	24	†
		White	F30T8/W	24	.80
		Daylight	F30T8/D	24	.80
		Soft White	F30T8/SW	24	.90
48"—T-12 (1½" diam.) ①	40	Standard Cool Wh.	F40T12/CW	24	1.00
		De Luxe Cool Wh.	F40T12/CWX	24	1.15
		Standard Warm Wh.	F40T12/WW	24	1.00
		De Luxe Warm Wh.	F40T12/WWX	24	1.15
		White	F40T12/W	24	1.00
		Daylight	F40T12/D	24	1.00
		Soft White	F40T12/SW	24	1.05
48"—T-12 (1½" diam.)	40	Std. Cool Wh. ②	F40T12/CW/IS	24	1.10
		Std. Warm Wh. ②	F40T12/WW/IS	24	1.10
		Soft White ②	F40T12/SW/IS	24	1.20
Mogul Bipin Base					
60"—T-17 (2⅛" diam.)	40	Standard Cool Wh. ②	F40T17/CW/IS	12	$2.45
60"—T-17 (2⅛" diam.)	85	Standard Cool Wh.	F85T17/CW	12	2.45
		Standard Warm Wh.	F85T17/WW	12	2.45
		White	F85T17/W	12	2.45
		Daylight	F85T17/D	12	2.45
		Soft White	F85T17/SW	12	2.65

G-E SLIMLINE FLUORESCENT LAMPS

(Instant Start—No Starters Used)

F96T8
F72T8
F64T6
F42T6



G-E Fluorescent lamps, ¾, 1 and 1½ inches in diameter, provide long slim lines of light and are greatly appreciated for their decorative value as well as for their lighting efficiency

Bulb	Nom. Lamp Watts	Color♦	Lamp Ordering Abbrev.	Std. Pkg. Qty.	*List Price
Single Pin Base					
42"—T-6 (¾" diam.) ①	17.5-32.5	Standard Cool Wh.	F42T6/CW	24	$1.60
		De Luxe Cool Wh.	F42T6/CWX	24	†
		Standard Warm Wh.	F42T6/WW	24	1.60
64"—T-6 (¾" diam.) ①	25.5-48	Standard Cool Wh.	F64T6/CW	24	1.85
		De Luxe Cool Wh.	F64T6/CWX	24	†
		Standard Warm Wh.	F64T6/WW	24	1.85
72"—T-8 (1" diam.) ①	24.5-48.5	Standard Cool Wh.	F72T8/CW	24	2.05
		De Luxe Cool Wh.	F72T8/CWX	24	†
		Standard Warm Wh.	F72T8/WW	24	2.05
		De Luxe Warm Wh.	F72T8/WWX	24	†
96"—T-8 (1" diam.) ①	32-65	Standard Cool Wh.	F96T8/CW	24	2.75
		De Luxe Cool Wh.	F96T8/CWX	24	†
		Standard Warm Wh.	F96T8/WW	24	2.75
		De Luxe Warm Wh.	F96T8/WWX	24	†
48"—T-12 (1½" diam.)	38	Standard Cool Wh.	F48T12/CW	24	1.45
		Standard Warm Wh.	F48T12/WW	24	1.45
72"—T-12 (1½" diam.)	55	Standard Cool Wh.	F72T12/CW	12	2.65
		Standard Warm Wh.	F72T12/WW	12	2.65
96"—T-12 (1½" diam.)	72	Standard Cool Wh.	F96T12/CW	12	3.30
		De Luxe Cool Wh.	F96T12/CWX	12	†
		Standard Warm Wh.	F96T12/WW	12	3.30
		De Luxe Warm Wh.	F96T12/WWX	12	†

G-E CIRCLINE FLUORESCENT LAMPS



Circline fluorescent lamps have wide use in residential floor and table lamps as well as in commercial and industrial applications.

4-Pin Base					
12" Circline	32	Standard Cool Wh.	FC12T10/CW	12	$2.10
1¼" Diam.	32	Standard Warm Wh.	FC12T10/WW	12	2.10

♦ All "Standard Cool White" listings were formerly "4500 White" all "Standard Warm White" listings were formerly "Warm Tint."

† Prices not available at time of going to press.

① Available in blue, green, pink, gold and red.

② For instant start service. No starters used.

All G-E Fluorescent lamps are for multiple operation and should be used only with auxiliary equipment designed to produce proper electrical values. Lamps may be burned in any position.

*** List Prices do not include Federal Excise Tax.**

GENERAL ELECTRIC LAMPS

GENERAL ELECTRIC PROJECTOR AND REFLECTOR LAMPS

115, 120, and 125 Volts



Projector Spot Projector Flood Reflector

The Reflector Spot and Flood lamps provide, respectively, a concentrated beam for feature store and window displays, or a spread beam for floodlighting interiors and operations. Not for outdoor use.

The Projector Spot and Flood offer the same type of service. Being made of hard glass, they may be used indoors, or outdoors—wherever reflectors must be free from effects of weather, vapor, dust, and deterioration.

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
§GENERAL ELECTRIC PROJECTOR LAMPS					
†150	PAR-38	Med. Skt.	150PAR/SP	12	$1.55
†150	PAR-38	Med. Skt.	150PAR/FL	12	1.55
GENERAL ELECTRIC REFLECTOR LAMPS					
75	R-30 Light I.F.	Med.	75R30/SP	60	1.05
75	R-30 I.F.	Med.	75R30/FL	60	1.05
150	R-40 Light I.F.‡	Med.	150R/SP	24	1.05
†300	R-40 Light I.F.‡	Med.	300R/SP	24	1.55
150	R-40 I.F.‡	Med.	150R/FL	24	1.05
†300	R-40 I.F.‡	Med.	300R/FL	24	1.55

† Should be burned only in porcelain sockets.
§ Lamps are suitable for both outdoor and indoor use.
‡ May not give satisfactory performance if any accessory lighting equipment is attached to. or touches. the glass bulb.

G-E ROUGH SERVICE AND VIBRATION LAMPS

115, 120, and 125 Volts

This lamp withstands shock and bumps, such as received when used as a portable light on extension cord.

Watts	Bulb and Finish	Base	Max. Over-all Length, Inches	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
50	A-19 I.F.	Med.	3 1/16	50A/RS	120	$0.25
100	A-23 I.F.	Med.	6 1/16	100A/RS	120	.35

The Vibration lamp is designed to withstand high frequency vibration. as from high-speed machinery.

50	A-19 I.F.	Med.	3 1/16	50A/VS	120	$0.20
100	A-23 I.F.	Med.	6 1/16	100A23/28	120	.35

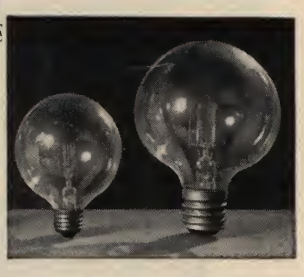
G-E HIGH VOLTAGE LAMPS (230 and 250 Volts)

25	A-19 I.F.	Med.	3 1/16	25A	120	$0.18
50	A-19 I.F.	Med.	3 1/16	50A	120	.18
100	A-23 I.F.	Med.	6 1/16	100A	120	.24
200	PS-30 Cl.	Med.	8 1/16	200	60	.50
200	PS-30 I.F.	Med.	8 1/16	200/IF	60	.55
300	PS-35 Cl.	Mog.	9 3/8	300	24	.85
500	PS-40 Cl.	Mog.	9 3/4	500	24	1.40
750	PS-52 Cl.	Mog.	13 1/16	750	6	3.50
1000	PS-52 Cl.	Mog.	13 1/16	1000	6	3.75

FLOODLIGHT AND SPOTLIGHT LAMPS

115, 120, and 125 Volts

G-E Floodlight and Spotlight lamps are made with the filament concentrated into a small space and accurately positioned with respect to the base. They may be burned in any position from vertically base down to horizontal.



G-30 G-40

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Light Center Length, Inches	Std. Pkg. Qty.	*List Price
FLOODLIGHT LAMPS						
250	G-30 Cl.	Med.	250G/FL	3	60	$1.40
500	G-40 Cl.	Mog.	500G/FL	4 1/4	24	2.55
1000	G-40 Cl.	Mog.	1M/G40FL	5 1/4	24	5.00
SPOTLIGHT LAMPS						
100	A-21 Cl.	Med.	100A21SP	3	120	1.05
250	G-30 Cl.	Med.	250G/SP	3	60	1.40
400	G-30 Cl.	Med.	400G/SP	3	60	1.90
1000	G-40 Cl.	Mog.	1M/G40SP4 1/4	4 1/4	24	5.00

*** List Prices do not include Federal Excise Tax.**

G-E NEON GLOW LAMPS



NEON GLOW LAMPS are low voltage lamps of the gaseous discharge type. Ideal as pilots and indicators for appliances and industrial apparatus because they require little power, can operate on standby battery or generator service, stand up under shock and vibration.

Screw Base Lamps have the required resistor, for operation on the rated voltage, included within the lamp base. For operation on higher circuit voltages, external resistors must be supplied.

Bayonet Base Lamps are not equipped with resistors. External resistors or current limiting devices must be provided to limit the current to normal amount.

Watts	Bulb	Volts (Circuit)	Base	Order Desig.	List Price
3	S-14	105-125	Medium Screw	†NE-40	$0.60
3	S-14	105-125	Sk. D. C. Bay. Cand.	†NE-42	.65
2	S-14	105-125	Medium Screw	†NE-34	.50
2	S-14	105-125	Sk. D. C. Bay. Cand.	†NE-36	.55
1	G-10	105-125	Medium Screw	†NE-30	.40
1	G-10	105-125	D. C. Bay. Cand.	†NE-32	.45
1	G-10	210-250	Medium Screw	†NE-56	.40
1/2	T-4½	210-250	Cand. Screw	†NE-58	.40
1/4	T-4½	105-125	Cand. Screw	†NE-57	.40
1/4	T-4½	105-125	Cand. Screw	†NE-45	.40
1/4	T-4½	105-125	D. C. Bay. Cand.	†NE-48	.35
1/4	T-4½	105-125	D. C. Bay Cand.*	†NE-16	.42
1/4	T-4½	105-125	D. C. Bay. Cand.	†NE-17	.45
1/25	T-2	105-125	Unbased (Wire Term.)	‡NE-2	.08
1/25	T-3¼	105-125	S. C. Bay. Min.	†NE-51	.10

NE-34, NE-40 supplied with red finish at additional charge of $0.05 each.
* NE-16 not subject to Federal Excise Tax.
† Unit pkg. qty. 10 lamps, std. pkg. qty. 100 lamps.
‡ Unit pkg. qty. 100 lamps, std. pkg. qty. 1000 lamps.

GENERAL ELECTRIC LAMPS

115, 120, 125 Volts Unless Otherwise Noted.

G-E SIGN AND DECORATIVE LAMPS



6S6 7C7 15F10 10S11 7½S11 10S14 25F15 25G18½

Inside colored (I.C.) lamps are particularly adaptable to exposed lamp signs and colorful displays. Outside coated (O C) flameshape and round bulb lamps are used where the bulb shape is related to the artistic design of the luminaire.

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
6	S-6 Clear	Cand.	6S6	240	$0.16
7	C-7 Clear	Cand.	7C7	240	.12
7	C-7 White (Nite Light)	Cand.	7C7/W	240	.14
7	C-7 O. C. Red	Cand.	7C7/R	240	.13
10	S-11 Clear	Inter.	10S11N	120	.16
10	S-11 White	Inter.	10S11N/CW	120	.21
7½	S-11 O. C. White	Med.	7½S/W	120	.16
7½	S-11 O. C. Red	Med.	7½S/R	120	.16
10	S-14 Clear	Med.	10S14	120	.15
10	S-14 I. F.	Med.	10S14/IF	120	.15
25	A-19 Colored②	Med.	25A/①	120	.18
60	A-19 Yellow	Med.	60A/Y	120	.19
100	A-21 Yellow	Med.	100A21/61Y	120	.26

① Substitute color symbol in place of ① in ordering abbreviation, thus: 25A/B.

② Colors: blue (B), flametint (FT), green (G), ivory (V), orange (O), red (R), rose (R2), and yellow (Y).

15	F-10 O. C.①	Cand.	15FC/①	60	$0.22
25	F-15 Clear	Med.	25F	120	.18
25	F-15 O. C.①	Med.	25F/①	120	.18
25	G-18½ O. C. White	Med.	25G18½/W	120	.30
40	G-25 O. C. White	Med.	40G/W	60	.35

Outside coated lamps not recommended for outdoor use.

① Colors: flametint (FT), white (W), ivory (V). Substitute color symbol in place of ① in ordering abbreviation, thus: 15FC/V.

G-E THREE-LITE LAMPS

Give three levels of lighting. Used generally in table and floor lamps. Three contact bases.

30 70 100	A-21 I. F.	Med.	30/100	120	$0.30
50 100 150	PS-25 I. F.	Med.	50/150M	60	.36
50 100 150	PS-25 I. F.	Mog.	50/150	60	.48
50 100 150	R-40 White	Med.	50/150R/W	24	1.15
100 200 300	G-30 White	Mog.	100/300	60	.60



50/150

G-E COUNTRY HOME LAMPS

(30 Volts)

15	A-17 I. F.	Med.	15A	120	$0.20
25	A-19 I. F.	Med.	25A	120	.20
50	A-21 I. F.	Med.	50A21	120	.20
100	A-23 I. F.	Med.	100A	120	.33

*** List Prices do not include Federal Excise Tax.**



GENERALELECTRIC LUMILINE LAMPS

These lamps provide continuous lines of clear or colored light of low brightness. They are ideally suited to modern decorative concepts for built-in illumination or applied decoration; for displays, niches, mirrors, and the like.

Watts	Bulb and Finish	Base	Max. Over-all Length, Inches	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
40	T-8 Clear	Disc	11¾	L40	24	$1.05
40	T-8 I. F.	Disc	11¾	L40/IF	24	1.10
40	T-8 White	Disc	11¾	L40/W	24	1.10
40	T-8 Straw	Disc	11¾	L40/ST	24	1.10
60	T-8 Clear	Disc	17¾	L60	24	1.20
60	T-8 I. F.	Disc	17¾	L60/IF	24	1.25
60	T-8 White	Disc	17¾	L60/W	24	1.25
60	T-8 Straw	Disc	17¾	L60/ST	24	1.25

G-E SILVERED BOWL LAMPS

Used with indirect lighting equipment. Have inside frosted bulb with coating of mirrored silver on the bowl.

60	A-19	Med.	4 1/16	60A/SB	120	$0.28
100	A-23	Med.	6 1/16	100A/SB	120	.30
150	PS-25	Med.	6 15/16	150/SB	60	.45
200	PS-30	Med.	8 1/16	200/SBIF	60	.67
300	PS-35	Mog.	9⅜	300/SBIF	24	1.20
500	PS-40	Mog.	9¾	500/SBIF	24	1.70

G-E INSIDE WHITE BOWL LAMPS

White enamel coating redirects about 80% of light upwards. Used in open type direct lighting fixtures.

150	PS-25	Med.	6 15/16	150/WB	60	$0.25
200	PS-30	Med.	8 1/16	200/WB	60	.32
300	PS-35	Mog.	9⅜	300/WB	24	.70

G-E WHITE LAMPS

Gives almost perfect light diffusion, is clean and white in appearance — ideal for reading lamps.



100	A-21	Med.	5 5/16	100A/W	120	$0.21

G-E APPLIANCE LAMPS



T7 T8

Candelabra Screw Base

10	C-7 Clear	2⅛	10C7	240	$0.13

D. C. Bayonet Candelabra Base

10	C-7 Clear	2 3/16	10C7DC	120	$0.14
15	T-7 Clear	2⅝	15T7DC	60	.25
25	T-8 Clear	2⅝	25T8DC	60	.25

Medium Screw Base

40	A-15 I.F.	3¾	40A15/1	120	$0.15
40	A-15 Clear	4	40A15/22	120	.25

GENERAL ELECTRIC LAMPS



G-E INFRARED HEAT LAMPS †

115–125 Volts (Design Volts 115)

G-E Heat lamps provide penetrating heat that helps to relieve muscular aches and pains. Have many other uses in home and farm for quick drying and heating.

250R40/10

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	List Price
250	R-40 Light I.F.	Med.	250R40/1	24	$1.10
• 250	R-40 Red bowl	Med.	250R40/10	24	2.95

G-E INFRARED INDUSTRIAL LAMPS†

115-125 Volts (Design Volts 115)

Radiation from G-E industrial lamps speeds drying and surface heating processes and facilitates today's trend toward straight-line, continuous-flow production.



G-30 R-40

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	List Price
250	G-30 Clear	Md.Sk.	250G30	60	$0.80
250	R-40 Light I.F.	Md.Sk.	250R40/4	24	1.25
375	R-40 Light I.F.	Md.Sk.	375R40	24	1.50

G-E SUNLAMPS †



RS

Sunlamps are usually employed in portable-type lamps and fixtures for homes, offices and similar locations; in various types of farm units for irradiating animals and poultry and in Solaria.

RS. Type RS, is in a bulb with self-contained reflector, and operates directly from 50-60 cycle, 110-125 volt A.C. current with no auxiliary ballast required.

Watts	Bulb	Finish	Base	Lamp No.	Std. Pkg. Qty.	List Price
•275	R-40	I.F. Reflector	Med.	RS	6	$8.50

• The Schedule of Discounts to Purchasers Without Contract does not apply to this lamp. A discount of 30% of list will be allowed on noncontract purchases of one or more standard packages of this lamp, but no discount will be allowed on less than standard package quantities even if purchased with standard packages.

† Not subject to Federal Excise Tax.

G-E GERMICIDAL LAMPS †



Germicidal lamps transmit ultraviolet energy in wavelengths most effective in destroying bacteria and molds. They have wide application in hospitals, schools and other places where the control of air and surface bacteria is of greatest public concern. They are used also to provide sterile storage for foods, pharmaceuticals and other product protection. Germicidal lamps should be properly installed in correctly designed fixtures to give proper distribution of ultraviolet for air disinfection.

Watts	Bulb	Base	U-V Output Watts	Lamp Ordering Abbrev.	Std. Pkg. Qty.	List Price
15	T-8	Med. Bipin	2.9	G15T8	24	$4.50
30	T-8	Med. Bipin	7.2	G30T8	24	6.75
8	T-5	Min. Bipin	1.5	G8T5	24	4.25



T-6½ T-10 T-8

GENERAL ELECTRIC TUBULAR LAMPS*

115, 120, and 125 Volts

These low-wattage tubular lamps are for showcase lighting, in shallow-depth displays, and in small trough-like reflectors. The SHOW-CASE REFLECTOR lamps have a built-in reflecting surface and a spring contact base for positioning.

Watts	Bulb	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
25	T-6½ Clear	Inter.	25T6½	60	$0.38
25	T-10 Clear	Med.	25T10	60	.27
25	T-10 I. F.	Med.	25T10/IF	60	.30
25	T-10 Refl.(Lt. I.F.)	Med.	25T10/RFL	60	.85
40	T-10 Refl.(Lt. I.F.)	Med.	40T10/RFL	60	.85
40	T-8 Clear	Med.	40T8	24	.95
40	T-10 Clear	Med.	40T10	60	.33

G-E MERCURY LAMPS*

Higher lumens per watt efficiency give mercury lamps preference over filament-type lamps for certain lighting purposes. The yellowish-green light is emitted by an electric arc formed between two electrodes enclosed in a glass bulb. They require special transformers or regulating devices for starting and operation.



A-111

Approx. Lamp Watts	Bulb	Base	Lamp Number	Rated Average Life (Hrs.) ①	Std. Pkg. Qty.	*List Price
②400	T-16	Mog.	H400-A1	4000	12	$10.50
400	T-20	Mog.	H400-E1	3000	12	17.00
3000	T-9½	S.C. Term.	H3000-A9	5000	1	48.00

① Rated average life under specified test conditions, with 5 burning hours per start.
② Burn within 10° of vertical base up.

*** List Prices do not include Federal Excise Tax.**
† Not subject to Federal Excise Tax.

GENERAL ELECTRIC LAMPS

TRAIN AND LOCOMOTIVE

TRAINLIGHTING. To insure satisfactory lamp performance, voltage regulating devices should be adjusted to maintain rated lamp voltage at the socket. The 30- and 60-volt lamps are recommended as best adapted to average voltage conditions encountered in train-lighting service.

LOCOMOTIVE HEADLIGHT. Should be operated at rated voltage in headlight equipment protecting them from excessive vibration. The bulb must be protected from water which might strike it while hot.

The 250-watt lamp is designed for road locomotives. The 100-watt is recommended for switching locomotives.

LOCOMOTIVE CAB. This lamp designed for ruggedness rather than efficient light production. For all locomotive lighting purposes except headlighting.

Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
TRAIN—30 and 60 Volts					
15	A-17 I. F.	Med.	15A	120	$0.20
25	A-19 I. F.	Med.	25A	120	.20
50	A-21 I. F.	Med.	50A21	120	.20
*100	A-23 I. F.	Med.	100A	120	.33
TRAIN—ROUGH SERVICE—75 Volts					
25	A-17 I. F.	Med.	25A17/RS	120	.45
50	A-19 I. F.	Med.	50A19/RS	120	.45
TRAIN—34 Volts					
15	S-14 I.F. (Loco. Cab)	Med.	15S14/IF	120	.20
HEADLIGHT—32 Volts					
100	A-21 Clear	Med.	100A21/3	120	1.05
*200	PAR-56 Clear	Sc. Term.	200PAR	8	3.50
250	P-25 Clear	Med.	250P25	60	1.55

* 30 volts only.

G-E STREET RAILWAY LAMPS

115, 120, and 125 Volts

HEADLIGHTING. Headlight lamps are for operation in series with four lamps of corresponding wattage and voltage used elsewhere in the car.

36①	A-19 Cl. (.342 A.)	Med.	36A/RYH	120	$0.55
94①	P-25 Cl. (.863 A.)	Med.	94P25	60	1.00

CAR LIGHTING. 5-in-series lamps operate on the trolley voltage and are used for general illumination, destination signs.

36①	A-21 I.F. (.342 A.)	Med.	36A/RY	120	$0.20
56①	A-21 I.F. (.519 A.)	Med.	56A21	120	.22
101	A-23 I.F.	Med.	101A23	120	.40
201	PS-30 Cl.	Med.	201PS30	60	.75
301	PS-35 Cl.	Mog.	301PS35	24	1.30

CUTOUT LAMPS—30 Volts

Each lamp is equipped with an automatic short-circuiting element which cuts the lamp out of the circuit and prevents arcing when the lamp burns out.

—	A-19 I.F. (1.0 A.)	Med.	1A/A19	120	$0.30
—	A-21 I.F. (1.6 A.)	Med.	1.6A/A21	120	.35

① Nominal watts. Actual watts determined by multiplying volts by the amperes (amperes being the same for all voltages).

*** List Prices do not include Federal Excise Tax.**

G-E TRAFFIC SIGNAL LAMPS

115, 120, and 125 Volts

These lamps have a short light center length, and produce enough light for a signal indication of requisite brightness. In the interest of public safety it is strongly recommended that no lamp of lower wattage be used.

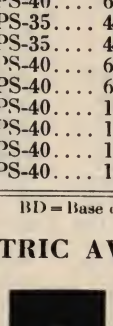
Watts	Bulb and Finish	Base	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
60	A-21 Clear	Med. Screw	60A21/TS	120	$0.25
67	A-21 Clear	Med. Screw	67A21/40	120	.30

G-E STREET SERIES LAMPS

Amps.	Lumens	Approx. Initial Volts	Clear Bulb	Lamp Ordering Abbrev. ①	Std. Pkg. Qty.	*List Price
Mogul Screw Base						
6.6	1000	9.4	PS-25	1M/66	60	$0.40
6.6	2500	21.7	PS-35	2500/66	24	.80
6.6	4000	31.9	PS-35	4M/66	24	.95
6.6	6000	46.9	PS-40	6M/66	24	1.35
15	4000	13.5	PS-35	4M/15BU	24	1.05
15	4000	13.5	PS-35	4M/15BD	24	1.05
20	6000	14.7	PS-40	6M/20BU	24	1.45
20	6000	14.7	PS-40	6M/20BD	24	1.45
20	10000	24.3	PS-40	10M/20BU	24	1.85
20	10000	24.3	PS-40	10M/20BD	24	1.85
20	15000	35.7	PS-40	15M/20BU	24	2.55
20	15000	35.7	PS-40	15M/20BD	24	2.55

① BU = Base up burning. BD = Base down burning.

GENERAL ELECTRIC AVIATION LAMPS



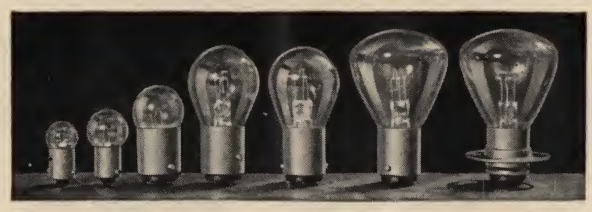
T-20

Effective functioning of aviation lighting equipment requires accurate positioning. Bipost and prefocus bases provide a high degree of accuracy.

Watts or Nom. Lumens	Bulb	Base	Volts or Amps.	Lamp Ordering Abbrev. (Exc. Volts)	Std. Pkg. Qty.	*List Price
AIRCRAFT MARKER LAMPS (Clear)						
325L	A-21	Med. Pf.	6.6A	325/66/A21	120	$0.70
1020L	A-21	Med. Pf.	6.6A	1020/66/A21	120	.70
30	T-10	Med. Pf.	6.6A	6.6A/T10/1P	60	.95
200	T-14	Med. Pf.	6.6A	6.6A/T14P	24	2.70
AIRPORT APPROACH LAMP (Lens Cover)						
250	PAR-56	Mog. End Prong	12.5	250PAR	8	2.90
AIRWAY BEACON LAMPS (Clear)						
500	T-20	Med. Bip. ①		500T20/13	12	4.60
1000	T-20	Mog. Bip. ①		1M/T20BP	12	6.50

① Voltages: 115, 120, and 125.

GENERAL ELECTRIC MINIATURE LAMPS



G-3½ G-4½ G-6 S-8 D. C. Index S-8 D. C. Bay. RP-11 Bayonet RP-11 Prefocus

G-E Lamp Number	List Price	C. P.	Bulb	Base
6-8 VOLT—AUTOMOTIVE SERVICE †				
51	$0.09	1	G-3½	Min. Bay.
55	.09	2	G-4½	Min. Bay.
63	.10	3	G-6	S. C. Bay.
64	.12	3	G-6	D. C. Bay.
81	.12	6	G-6	S. C. Bay.
82	.14	6	G-6	D. C. Bay.
87	.23	15	S-8	S. C. Bay.
88	.25	15	S-8	D. C. Bay.
1007	.42	32	RP-11	S. C. Pref.
1129	.25	21	S-8	S. C. Bay.
1130	.27	21	S-8	D. C. Bay.
1133	.27	32	RP-11	S. C. Bay.
1000	.32	32–32	RP-11	D. C. Bay.
1154	.32	21–3	S-8	D. C. Index
1158	.32	21–3	S-8	D. C. Bay.
1323	.42	32	RP-11	S. C. Pref.
2330	.43	32–32	RP-11	D. C. Pref.
2331	.47	32–32	RP-11	D. C. Pref.
12-16 VOLT—MOTOR TRUCK AND COACH †				
57	.15	1½ (nom.)	G-4½	Min. Bay.
67	.13	3	G-6	S. C. Bay.
68	.15	3	G-6	D. C. Bay.
89	.14	6	G-6	S. C. Bay.
93	.27	15	S-8	S. C. Bay.
94	.29	15	S-8	D. C. Bay.
1016	.53	21–6	S-8	D. C. Index
1124	.50	32–32	RP-11	D. C. Bay.
1141	.29	21	S-8	S. C. Bay.
1142	.31	21	S-8	D. C. Bay.
1143	.37	32	RP-11	S. C. Bay.
1144	.39	32	RP-11	D. C. Bay.
1176	.52	21–6	S-8	D. C. Bay.
1327	.62	32	RP-11	S. C. Pref.
2336	.63	32–32	RP-11	D. C. Pref.

† Federal Excise Tax (1.6%) not included in list prices shown.

RADIO PANEL, INDICATORS, MISCELLANEOUS ★

G-E Lp. Number	List Price	Bulb	Rated Volts	Amps.	Bead Color	Base
41	$0.11	T-3¼	2.5	0.50	White	Min. Screw
40	.11	T-3¼	6–8	0.15	Brown	Min. Screw
46	.11	T-3¼	6–8	0.25	Blue	Min. Screw
50	.11	G-3½	6–8	0.22	White	Min. Screw
1490	.11	T-3¼	3.2	0.16	White	Min. Bay.
47	.11	T-3¼	6–8	0.15	Brown	Min. Bay.
44	.11	T-3¼	6–8	0.25	Blue	Min. Bay.
1458	.15	G-5	20	0.25	White	Min. Bay.
TOY TRAIN ★						
428	.12	G-4½	12.5	0.25	.....	Min. Screw
1446	.15	G-3½	12	0.20	.....	Min. Screw
1449	.15	G-3½	14	0.20	.....	Min. Screw
1447	.23	G-3½	18	0.15	.....	Min. Screw
432	.13	G-4½	18	0.25	.....	Min. Screw

★ Federal Excise Tax (6.3%) not included in list prices shown.

General Electric sealed beam headlamps are of rugged, all-glass construction — they do not grow dim! Same construction used in General Electric fog lamps.

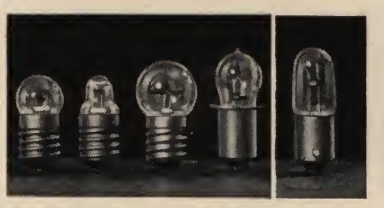


G-E "L" LAMPS (Sealed Beam Types) †

G-E Lp. Number	List Price	Watts	Volts	Bulb	Base	Service
4030	$1.40	45–35	6–8	PAR-56	3 Cont. Lugs	Sealed Beam
4430	1.80	45–35	12–16	PAR-56	3 Cont. Lugs	Sealed Beam
4012	1.50	35	6–8	PAR-46	Screw Term.	Clear Fog
4012A	1.70	35	6–8	PAR-46	Screw Term.	Amber Fog
4013	¶1.45	25	6–8	PAR-46	Screw Term.	Tractor
4015	1.45	35	6–8	PAR-36	Screw Term.	Clear Fog
4015A	1.65	35	6–8	PAR-36	Screw Term.	Amber Fog
4412	2.00	35	12–16	PAR-46	Screw Term.	Clear Fog
4412A	2.20	35	12–16	PAR-46	Screw Term.	Amber Fog
4435	2.35	30	12–16	PAR-46	Screw Term.	Clear Spot
4510	1.70	25	6–8	PAR-36	Screw Term.	Clear Utility
4515	1.80	30	6–8	PAR-36	Screw Term.	Clear Spot
4516	1.70	30	6–8	PAR-36	Screw Term.	Clear Hand Spot
4535	1.85	30	6–8	PAR-46	Screw Term.	Clear Spot

A unit package of above types consists of 8 lamps.

† Federal Excise Tax (1.6%) not included in list prices shown.
¶ Federal Excise Tax (6.3%) not included in list prices shown.



G-3½ TL-3 G-4½ B-3½ T-3¼

FLASHLIGHTS, HAND-LANTERNS, BICYCLES AND MIS-CELLANEOUS ★

Miniature Screw Base

G-E Lp. Number	List Price	Bulb	Rated Volts	Design Amps.	Bead Color	Service Used with
112	$0.11	TL-3	1.10	0.22	Pink	1—AA cell
131	.11	G-3½	1.30	0.10	White	1—D
222	.11	TL-3	2.25	0.25	White	2—AA
223	.11	FE-3¾	2.25	0.25	White	2—AA
233	.11	G-3½	2.33	0.27	Purple	2—C
14	.11	G-3½	2.47	0.30	Blue	2—D
13	.11	G-3½	3.70	0.30	Green	3—D
502	.12	G-4½	5.10	0.15	Blue	4—F
605	.13	G-4½	6.15	0.50	Brown	5—D

Single Contact Miniature Flange Base

PR4	.15	B-3½	2.33	0.27	Lt. Green	2—C
PR2	.15	B-3½	2.38	0.50	Blue	2—D
PR6	.15	B-3½	2.47	0.30	Brown	2—D
PR3	.15	B-3½	3.57	0.50	Green	3—D
PR7	.15	B-3½	3.70	0.30	Pink	3—D

AA-cells....½" dia., 1⅞" high
C-cell.....1" dia., 1⅛" high
D-cell.....1¼" dia., 2¼" high
F-cell.....1¼" dia., 3 1/16" high
No. 6 cell..2½" dia., 6" high

A unit package of lamps listed on this page shall consist of 10 lamps, except where otherwise specified, of the same G-E Lamp Number.

GENERAL ELECTRIC LAMPS

G-E PHOTOFLASH LAMPS*



SM 5 5B 6 11 22 22B 31 50 50B

Lamp No.	Light Output Lumen Seconds	Bulb	Case Quantity	Carton Quantity	List Price
*PH/SM	4,700	B-11 Clear	120	8	$0.14
*PH/5	16,000	B-11 Clear	120	8	.13
*PH/5B	7,000	B-11 Blue	120	8	.17
*PH/6	15,500	B-11 Clear	120	8	.15
*PH/11	29,000	A-15 Clear	120	8	.15
†PH/22	63,000	A-19 Clear	120	6	.17
†PH/22B	27,000	A-19 Blue	120	6	.23
*PH/31	77,000	A-21 Clear	60	6	.24
†PH/50	95,000	A-21 Clear	60	6	.22
†PH/50B	43,000	A-21 Blue	60	6	.28

* Battery operation only. † Voltage operation 3–125 volts.

PROJECTION AND STEREOPTICON*
115, 120, and 125 Volts



T-8 T-8 T-10 T-12 T-20

Watts	Bulb and Finish	Lamp Ordering Abbrev. (Exc. Volts)	Rated Avg. Life, (Hrs.)	Max. Over-all Length, Inches	Avg. Light Center Length, Inches	Std. Pkg. Qty.	List Price
Single-Contact Bayonet Base							
100	T-8 Cl.	100T8/108SC	50	3 1/8	1 3/8	24	$0.70T
150	T-8 Cl.	150T8/70	25	3 5/8	1 3/8	24	1.30T
Medium Prefocus Base							
300	T-10‡	300T10P	25	5 3/4	2 3/16	24	2.90T
500	T-10‡	500T10P	25	5 3/4	2 3/16	24	3.50T
500	T-20 Cl.	500T20P	50	5 3/4	2 3/16	24	2.75T
750	T-12‡	750T12P	25	5 3/4	2 3/16	24	4.10T
1000	T-12‡	1M/T12P	10	5 3/4	2 3/16	24	6.00T
Mogul Prefocus Base							
1000	T-20 Cl.	1M/T20P	50	9 1/2	3 7/16	12	4.75T

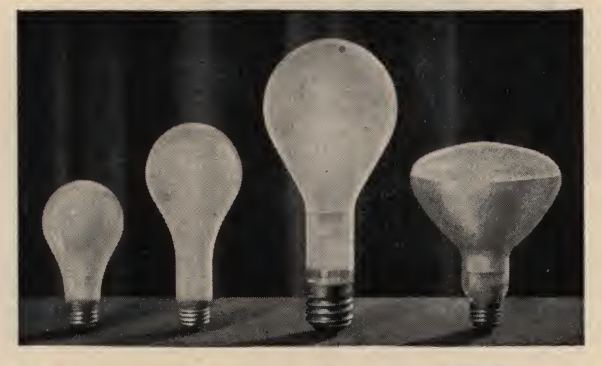
‡ Clear bulb with opaque end.

G-E PHOTOGRAPHIC ENLARGER LAMPS*

Lamp No.	Watts	Bulb and Finish	Life (Hrs.)	Case Qty.	Carton Qty.	List Price
Medium Base—115-125 Volts						
② PH/111	75	S-11 White.....	25	120	6	$0.55
PH/211	75	A-21 White.....	100	60	6	.40
PH/212	150	A-21 White.....	100	60	6	.41
PH/213	250	A-21 White.....	3	60	6	.42
PH/302	500	PS-30 White....	100	60	1	1.30

① All photoflood lamps operate on 105 to 120 volts, alternating or direct current.
② Single contact bayonet base.

G-E PHOTOFLOOD LAMPS ①*



1 2 4 RFL2

Reflector No. RFL2 —Specially shaped bulb, with inside coating of mirror aluminum redirects the light so that most effective illumination is obtained within a 60-degree zone. 5 inches in diameter, 6½ inches over-all.

Reflector Photospot No. RSP2 —Is ideal for highlighting, backlighting and edgelighting. Its light has been squeezed into a beam of approximately 20°— resulting in a punch of light more than seven times more powerful than that of the RFL2.

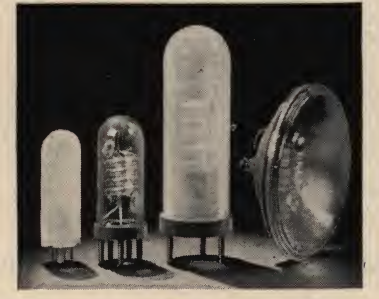
Lamp No.	Watts	Bulb	Volts	Rated Life	Case Qty.	Carton Qty.	List Price
PH/1	250	A-21 I.F.	115	3	60	6	$0.18
PH/2	500	PS-25 I.F.	115	6	60	6	.33
PH/4	1000	PS-35 I.F.	115	10	24	1	1.20
PH/RFL2	500	R-40 I.F.	115	6	24	1	1.15
PH/RSP2	500	R-40 I.F.	115	6	24	1	1.30
PH375/34R4	375	R-40 I.F.	115	4	24	1	1.25

G-E FLASHTUBE MODELING*

For use with G-E Flashtube No. FT-403.

60T6½/1	60	T-6½Cl.	115 120 125	100	24	1	1.85

G-E FLASHTUBES *



FT-210 FT-214 FT-403 FT-220

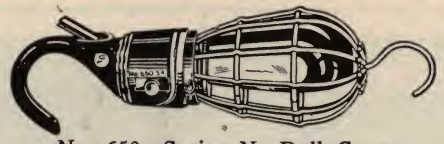
For use only with auxiliary equipment specially designed to produce proper electrical values. Design volts 2000.

Flashtube Number	Outer Bulb	Base	Max. Over-all Length Inches	Max. Watt-Seconds	Case Quantity	List Price
FT-210...	T-10 I.F.	Octal 3-pin	3 5/8	200	12	$17.50T
FT-214...	T-12½	Giant 5-pin	3 7/8	200	12	18.50
FT-220...	PAR-46	3-screw Term.	3½	200	12	21.50
FT-403...	T-18 I.F.	Large 3-pin	6¾	480	12	23.00

*** Federal Excise Tax (13.1%) (T, 10%) of list price not included in photo lamp list prices shown. Discounts on G-E Photo Lamps obtainable upon request.**

McGILL PORTABLE LAMP GUARDS

RUBBER HOOK HANDLE, CLOSED END CAGE



No. 650—Series No-Roll Cage

The socket portion of guard handles is of pliable molded rubber. The hook is hard, molded rubber with a steel core, thoroughly vulcanized together into a single unit. Cord wires are run through a tough fibre disk supported in a cavity and knotted. Extra-heavy steel cage wires electrically welded and heavily plated.

No.	Description	List Price Each
650	Lamp size max. 100-w, RS, Keyless Socket	$4.00
650-R	No. 650 with Reflectors	4.20
650-S	No. 650 with Levolier Switch	4.30
650-SR	No. 650 with Reflector and Levolier Switch	4.50
650-M	Lamp size max. 50-w, RS, Keyless Socket	3.80
650-MR	No. 650-M with Reflector	4.10
650-MS	No. 650-M with Levolier Switch	4.20
650-MSR	No. 650-M with Reflector and Levolier Switch	4.40

INSULATED LAMP GUARDS

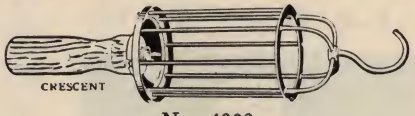


No. 999—Series

Cage of heavy ribbing, molded plastic . . . guards completely insulated. The hook is hard rubber around a steel core. Used around switchboards and panelboards in power stations, street railways, railroad signal offices, radio power and broadcasting stations.

999	Lamp size max. 50-w, RS, Keyless Socket	$8.40
999-R	No. 999 with Reflector	9.00
999-S	No. 999 with Levolier Switch	8.70
999-SR	No. 999 with Reflector and Levolier Switch	9.30

WOOD HANDLE, CLOSED END CAGE

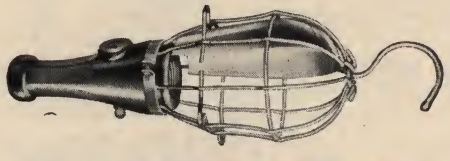


No. 4000

End cage of best grade steel wire, electrically welded and zinc plated. Polished hard wood handily fitted with Levolier switch and 660-watt, 250-volt socket—for any size lamp cord.

4000	Lamp size max. 100-w, RS (no switch)	$4.70
4675	Lamp size max. 100-w, RS (with switch)	5.10

PLASTIC HANDLE WITH CONVENIENCE OUTLET

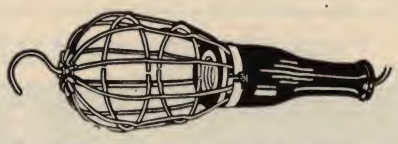


No. 5000—Series with No-Rol Cage

Underwriters' approved, with 15 amp., 125 volt convenience outlet. Resists oils, greases, acids, flame, moisture and abrasion. Offers exceptional service around garages, maintenance departments, machine shops and home work shops.

5000	Lamp size max. 100-w, RS, Keyless Socket	$4.30
5000-R	No. 5000 with Reflector	4.50
5000-S	No. 5000 with Levolier Switch	4.70
5000-RS	No. 5000 with Reflector and Levolier Switch	4.90

RUBBER HANDLE CLOSED END CAGE



No. 7000—Series with No-Rol Cage

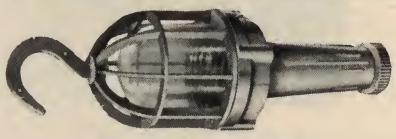
A type and size for every need in industrial plants, garages, railroads, power plants, etc. Solid rubber edge in handle supports tough fibre disk. Cage extra-heavy steel wires, electrically welded and heavily zinc plated.

No.	Description	List Price Each
7000	Lamp size max. 100-w, RS, Keyless Socket	$3.30
7000-R	No. 7000 with Reflector	3.50
7000-S	No. 7000 with Levolier Switch	3.60
7000-SR	No. 7000 with Reflector and Levolier Switch	3.90
7060	Lamp size max. 60-w, Keyless Socket	3.20
7060-R	No. 7060 with Reflector	3.40
7060-S	No. 7060 with Levolier Switch	3.50
7060-SR	No. 7060 with Reflector and Levolier Switch	3.80
7000-M	Lamp size max. 50-w, RS, Keyless Socket	3.20
7000-MR	No. 7000-M with Reflector	3.40
7000-MS	No. 7000-M with Levolier Switch	3.50
7000-MSR	No. 70000-M with Reflector and Levolier Switch	3.80

No. 7001—Open End

7001	Lamp size max. 100-w, RS, Keyless Socket	$3.80
7001-R	No. 7001 with Reflector	4.00
7001-S	No. 7001 with Levolier Switch	4.10
7001-SR	No. 7001 with Reflector and Levolier Switch	4.30

VAPORPROOF LAMP GUARDS



Nos. 3006 and 3007

Strong, portable guard is watertight, vaportight and moisture-proof. Will float if dropped in water. Handle is made of phenolic plastic. No. 3007 has a strong fibre cage, and is treated to prevent warpage. No. 3006 is equipped with a heavy zinc plated steel cage. Used in flour mills, ships, warehouses, food processing plants, display booths and painting booths. Splashing of liquids cannot harm guard or cause breakage of light bulb. No. 3007 is shock-proof, non-sparking and entirely free from metal.

3006	Lamp size max. 60-w, Steel Cage, Keyless Socket	$10.60
3006-R	3006 with Reflector	12.10
3007	Lamp size max. 60-w, Fibre Cage, Keyless Socket	12.10

SAFETY VAPORPROOF PORTABLE GUARDS

Bakelite Handle—Annealed Globe—Brass Wire Cage



Nos. 3002 and 3005

Positive protection where portable lighting must be watertight, moisture-proof and dust-tight. Cage of eight hard-brass wires with a 2″ open hook. Hard-brass bands, $\frac{7}{16}$″ wide, hold the glass globe rigid. Globe of heat-resisting glass, $\frac{3}{16}$″ thick. Has fire-resisting, break-proof, macerated phenolic plastic handle. Wherever there is a possibility of fire or explosion from a spark, exposed flame, heat, or breaking of bulbs, vaporproof lamp guards should be used.

3002	Lamp size max. 60-w, Keyless, Grounded Socket	$16.90
3002-R	3002 with Reflector	19.00
3005	Lamp size max. 100-w, Keyless, Gounded Socket	18.50
3005-R	3005 with Reflector and Grounded Socket	20.60

McGILL DELUXE SERVICE LIGHTS

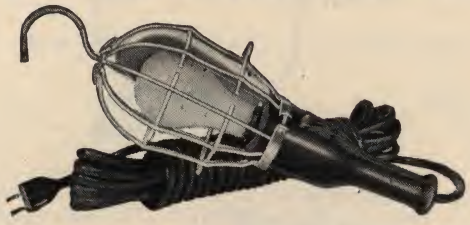


100% Oil and Grease Proof

Each unit is equipped with tough but pliable red thermoplastic cord and plug for long life. Portable service light with a 15 amp. 125 volt convenience outlet built in the handle and a Levolier switch. The outlet forms part of the molded phenolic plastic handle, which is non-conductive, heat and impact resisting and positively insulated. Resists oils, greases, acids, flames, moistures and abrasion. Underwriters' approval.

No.	Description	Cord Lgth.	List Price Each
5025	Lamp size max. 100-w, RS	25 ft.	$7.80
5025-R	No. 5025 with Reflector	25 ft.	7.90
5025-S	No. 5025 with Levolier Switch	25 ft.	8.20
5025-SR	No. 5025 with Reflector, Levolier Switch	25 ft.	8.50
5050	Lamp size max. 100-w, RS	50 ft.	10.80
5050-R	No. 5050 with Reflector	50 ft.	11.00
5050-S	No. 5050 with Levolier Switch	50 ft.	11.20
5050-SR	No. 5050 with Reflector, Levolier Switch	50 ft.	11.40

SERVICE LIGHT, RUBBER HANDLE, CLOSED END CAGE



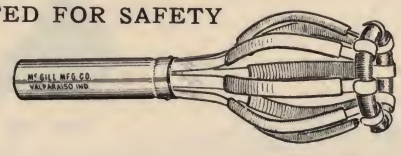
Rubber handle portable service light offers user an additional choice of a complete assembly. Basically these high quality extension lights are identical to the wood handle series. All models have zinc plated No-Rol cages furnished with 25′ or 50′ of red thermoplastic cord and with, or without, reflectors and Levolier switches.

7025	Lamp size max. 100-w, RS	25 ft.	$6.90
7025-R	7025 with Reflector	25 ft.	7.10
7025-S	7025 with Levolier Switch	25 ft.	7.20
7025-SR	7025 with Reflector and Levolier Switch	25 ft.	7.40
7050	Lamp size max. 100-w, RS	50 ft.	9.80
7050-R	7050 with Reflector	50 ft.	10.00
7050-S	7050 with Levolier Switch	50 ft.	10.10
7050-SR	7050 with Reflector and Levolier Switch	50 ft.	10.40

ADAPTER LAMP CHANGER

INSULATED FOR SAFETY

Uses a coal spring around the ends of the finger tips. This coil spring causes the rubber fingers to grip the lamp firmly and makes it much easier to remove.



No. 150-CA and **151-CA** are furnished with angle adjustment for easy removal of lamps mounted horizontally or at any angle.

No.	Description	List Price Each
150-CA	15-60-w, Angle Adjustment	$7.30
151-CA	100-200-w, Angle Adjustment	7.30
152-C	300-500-w, No Angle Adjustment	7.90
153-C	750-1500-w, No Angle Adjustment	8.40
154-C	400 Mercury, No Angle Adjustment	8.40
156-C	Par-38 R-40, No Angle Adjustment	7.90
160-P	Steel Interchangeable Poles, Insulated 5½′ Sections	5.20

DANIEL WOODHEAD PORTABLE LAMPS

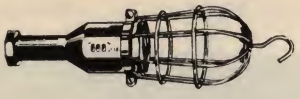
PROTEX LAMP NEOTEX HANDLE

No.  100

The only portable hand lamp with oil-proof NEoTEX handle . . . WATERTITE socket . . . extra heavy guard.

No.	Description	Ctn.	Std. Pkg.	List Price Each
100	Portable, closed end, no ref. 60 W.	6	30	$4.20
100S	No. 100 with key socket	6	30	5.00
100K	No. 100 with side outlet	6	30	5.50
104	Portable, closed end, with ref. 60 W.	6	30	5.10
106	Portable, closed end, with ref. 75-100 W.	6	30	5.40

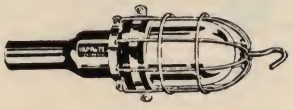
PORTABLE RUBBER HANDLE

No.  500

Heavy duty guard . . . weather-proof socket . . . taped splice for strain relief.

No.		List Price Each
500	No reflector, 60 watt size	$2.35
504	With reflector, 60 watt size	2.60
523	No reflector, 60 watt size, 25′ No. 18-2SJ Cord and cap	5.45
524	Same as 523 with 25′ No. 18-2S Cord and cap	6.95

VAPORPROOF PORTABLE NEoTEX HANDLE

No.  1200

Oil-proof, heat-resisting NEoTEX socket and handle . . . makes own gasket . . . TEMPRoTEX heat-resisting globe . . . extra heavy guard.

No.	Description	Ctn.	Std. Pkg.	List Price Each
1200	Vaporproof, steel guard, 60 W.	2	12	$14.80
1201	Vaporproof, steel guard, 100 W.	2	12	16.00
1202	Vaporproof, steel guard, 60 W., sealing gland	2	12	16.60
1203	Vaporproof, steel guard, 100 W., sealing gland	2	12	17.80
	Parts for VAPRoTEX			
1252	Heat resisting globe for 60 W. Vaprotex	2	12	3.50
1253	Heat resisting globe for 100 W. Vaprotex	2	12	3.90

HOFFMAN MODEL 11 HOLDA-LITE

SAVE LAMP BULBS



Holds the lamp bulb and the socket securely in the reflector. Prevents lamp breakage. Specially formed clips to fit over the rim, tension springs made of the finest stainless steel. The clips and bulb holder formed from cold rolled steel and are cadmium plated to prevent corrosion and rust. Packed one dozen to the box.

Model 11—Holda-Lite, Std. Pkg., 12; List price, each.. $0.8075

VAN DYKE FLUORESCENT DESK LAMPS

"THE EXECUTIVE"



No. 976

All metal beautifully streamlined with solid bronze pencil bar and appointments. Self-starting clock. Finish new rich tone brown to blend with either walnut or mahogany.

Model No. 976—For two 18" tubes (15 watts—110-120 volts, 60 cycles A.C.) Weight 12 lbs.

List price each (less tubes) **$33.50**



No. 1000-2

Wood base and uprights, bronze pencil bar. Finish Old English.

No. 1000-2—For two 18" tubes (15 watts—110-220 volts, 60 cycles A.C.). Weight 10 lbs.

List price each (less tubes).....**$22.50**

FLUORETTE MODEL



No. 1003A

Exclusively designed with precision appointments for the home or office. "A natural" for a knee hole desk. Also for spinet pianos and organs (that do not need height adjustment). Has adjustable shade and arm. Finished in walnut, mahogany, and ivory with plated arm to match. Weight 13 lbs.

No. 1003-A—For one 18" tube (15 watt for 110-120 volts, 60 cycles A.C.).

List price each (with tubes) **$28.00**

Note—All two-tube lamps can be had with one tube (at slightly lower price). Shipment from factory.

PORTABLE DESK MODEL



No. 302

Heavy cast base and uprights. Finish, morocco brown—Old English or grey. Weight 11 lbs.

Model 302—For two 18" tubes (15 watts for 110-120 volts, 60 cycles A.C.).

List price each (less tubes) **$17.50**

"THE STREAMLINER"



No. 100-2

Newly designed modern lamp, all metal with pen rest cast in base. Adjustable shade with maximum light efficiency. Shade finished in taupe brown hammerloid with morocco base to match. Also grey wrinkle. Weight 11 lbs.

Model No. 100-2—For two 18" tubes (15 watt for 110-120 volts, 60 cycles).

List price each (less tubes) **$19.00**

FLEXIBLE ARM MODEL



No. 706

Streamlined, utmost efficiency and flexibility. Cast base and flexible arm strong enough to hold any adjustment. Ballast mounted on steel bottom plate firmly secured to base by four felt feet. Beautifully finished in grey, bronze and Old English. Weight 8 lbs.

Model No. 706—For two 18" tubes (15 watt for 110-120 volts, 60 cycles).

List price each (less tubes) **$15.50**

18-INCH FLUORESCENT TUBES

For lamps shown on this page. List price each.....**$0.65**

DAZOR FLOATING LAMPS

DESK MODEL—FLUORESCENT

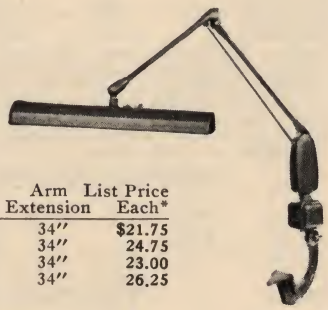
The weighted base does not require fastening down. It may be placed anywhere on a flat-top desk, table or other horizontal surface.



Model Number	Circuit Voltage	Power Factor	Arm Extension	List Price Each*
	For Two T8 15-W Tubes			
UL-2324-16	110V-60C	Low	24″	$29.00
UL-P-2324-16	110V-60C	High	24″	31.75
UL-2324-15	110C-50C	Low	24″	30.00
UL-P-2324-15	110V-50C	High	24″	33.25

BRACKET MODEL—FLUORESCENT

The gooseneck bracket base fastens to underside of drawing board, leaving upper edge clear for T-square. Board cover drops into gooseneck.



Model Number	Circuit Voltage	Power Factor	Arm Extension	List Price Each*
UL-2434-16	110V-60C	Low	34″	$21.75
UL-P-2434-16	110V-60C	High	34″	24.75
UL-2434-15	110V-50C	Low	34″	23.00
UL-P-2434-15	110V-50C	High	34″	26.25

UNIVERSAL MODEL—FLUORESCENT

This Dazor may be clamped or screwed to any surface — horizontal, vertical or sloping. Dual-clamp fitting is removable. Screws furnished.

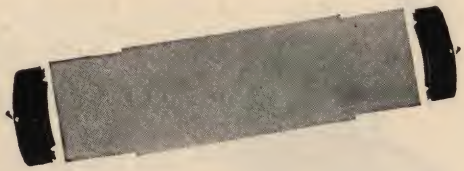


Model Number	Circuit Voltage	Power Factor	Arm Extension	List Price Each*
	For One T8 15-W Tube			
UL-1124-16	110V-60C	Low	24″	$18.75
UL-1134-16	110V-60C	Low	34″	18.75
UL-P-1124-16	110V-60C	High	24″	21.50
UL-P-1134-16	110V-60C	High	34″	21.50
UL-1124-15	110V-50C	Low	24″	19.75
UL-1134-15	110V-50C	Low	34″	19.75
UL-P-1124-15	110V-50C	High	24″	23.00
UL-P-1134-15	110V-50C	High	34″	23.00

Model Number	Circuit Voltage	Power Factor	Arm Extension	List Price Each*
	For Two T8 15-W Tubes			
UL-2124-16	110V-60C	Low	24″	$21.75
UL-2134-16	110V-60C	Low	34″	21.75
UL-P-2124-16	110V-60C	High	24″	24.75
UL-P-2134-16	110V-60C	High	34″	24.75
UL-2124-15	110V-50C	Low	24″	23.00
UL-2134-15	110V-50C	Low	34″	23.00
UL-P-2124-15	110V-60C	High	24″	26.25
UL-P-2134-15	110V-50C	High	34″	26.25

DAZOR POLAROID FILTER

The filter fits any 2-tube 15-watt fluorescent Dazor **Floating** Lamp. Consists of transparent Polaroid light-control film, 2 metal endpieces and 2 screws for easy fastening to the reflector housing.



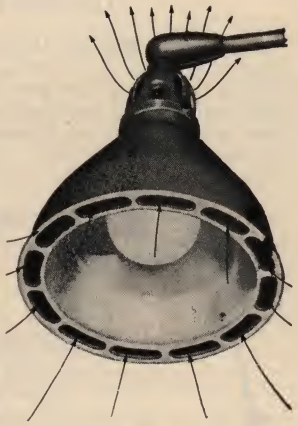
Model Number	List Price Each
F-570	$3.75

*Tubes Extra

AIR-COOLED INCANDESCENT

Air **flowing** between the inner reflector and the outer housing carries off heat. The shade remains comfortable to handle and there is no risk of accidental burns. A 60-watt bulb is recommended.

Regular incandescents are available with a choice of two reflectors: R1 reflector (5½″ dia.) is recommended for 40- to 60-watt bulbs; R2 reflector (6½″ dia.) for 40- to 75-watt bulbs, for greater spread of light.



AIR-COOLED UNIVERSAL MODEL INCANDESCENT

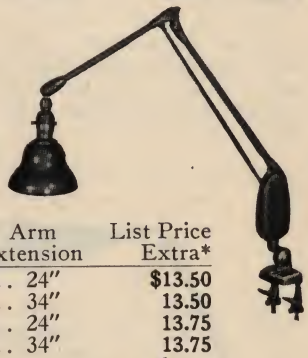
This Dazor may be clamped or screwed to any surface—horizontal, vertical or sloping. Dual-clamp fitting is removable. Screws furnished.



Model Number	Arm Extension	List Price Each*
UL-IL-602	24″	$18.75
UL-IL-603	34″	18.75

REGULAR INCANDESCENT UNIVERSAL MODEL

May be clamped or screwed to any surface — horizontal, vertical or sloping. Dual-clamp fitting is removable. Screws furnished.



Model Number	Arm Extension	List Price Extra*
UL-3124-R1	24″	$13.50
UL-3134-R1	34″	13.50
UL-3124-R2	24″	13.75
UL-3134-R2	34″	13.75

UNIVERSAL MODEL

This Dazor may be clamped or screwed to any surface—horizontal, vertical or sloping. Dual-clamp fitting is removable. Screws furnished.



Model Number	Circuit Voltage	Power Factor	Arm Extension	List Price Each*
UL-M-209	110V-60C	Low	24″	$33.50
UL-M-225	110V-50C	Low	24″	34.75

FLUORESCENT LIGHTING

This underside view of the reflector shows the three T5 6-watt fluorescent tubes. They concentrate adequate, soft, cool light on the object under examination.



*Tubes Extra

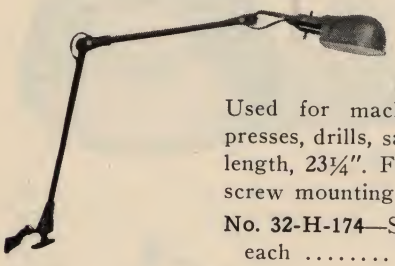
PEDESTAL AND BUSINESS MACHINE MODELS ALSO AVAILABLE

FOSTORIA LOCALITIES

OPEN BALL JOINT TYPE

WITH "H" TYPE REFLECTOR

Reflector depth 3", orifice 5"x3⅞". Light distribution—medium asymmetric. Interior finish—high temperature, highly reflective white baked enamel. Accommodates medium screw base lamps 15 through 100 watt A21.

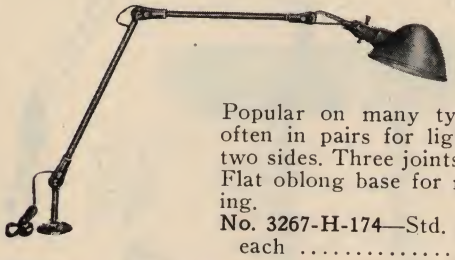


MODEL

32-H-174

Used for machine tools such as punch presses, drills, saws, etc. Two joints. Overall length, 23¼". Flat oblong base for machine screw mounting.

No. 32-H-174—Std. pkg. 6. List price each **$12.70***



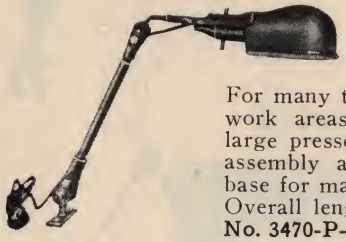
MODEL

3267-H-174

Popular on many types of machine tools often in pairs for lighting work area from two sides. Three joints. Overall length 32¾". Flat oblong base for machine screw mounting.

No. 3267-H-174—Std. pkg. 6. List price each **$15.30***

Reflector depth 4¼", orifice diameter 6$\frac{9}{16}$". Light distribution—wide. Interior finish—high temperature, highly reflective white baked enamel. Accommodates medium screw base lamps 15 through 100 watt A-21. May be equipped with clear, daylight, or opalescent lens.



MODEL

3470-P-172

BENCH APPROVED

For many types of machine tools with large work areas. Three joint, longer arms for large presses, milling and boring machines, assembly and inspection benches. Circular base for machine and wood screw mounting. Overall length 48¼".

No. 3470-P-172—Std. pkg. 6. List price each **$17.90***



MODEL

3267-U-172

WITH "U" TYPE REFLECTOR

Reflector depth 6$\frac{13}{16}$", orifice diameter 6$\frac{3}{32}$". Light distribution—narrow high shielding angle with lamp inverted in top of cone. Finish—high temperature, highly reflective aluminum paint. Designed for 100 watt A-21 lamp only. Equipped with clear glass lens. Opal or daylight lens also available.

Ideal for milling machines and broachers where light must reach inner recesses of product. Narrow beam of light penetrates with high intensity. Three joints. Overall length 37¼". Flat oblong base for machine screw mounting. Toggle switch in reflector arm.

No. 3267-U-172—Std. pkg. 4. List price each..... **$24.90***

* Lamps extra.

APPLETON PORTABLE REELITES



At left, model RE-7S2 with continuous swivel action. Enclosed steel case, baked hammertone enamel finish. At right, series 1500 Reelites in 5½", 10" and cloth-cutting types. Semi-swivel action, gray baked enamel finish. See tables below for details and accessories.



Portable Type Reelites

No.	Cord Length Feet	Cord Type*	Dia. of Reelite Inches	Max. Accessory Wt. Oz.	List Price Each
RE-1532	12	16-2SJ	5½	32	**$13.43**
RE-7S2	25	16-2SJ	7	20	**18.83**
RE-7SV2	20	18-3SJ	7	30	**28.27**
RE-1521‡	25	18-2	7¼	..	**16.68**
RE-1511‡	40	18-2	10	..	**25.96**
RE-1519	40	16-2SJ	10	16	**25.70**
RE-1520	50	18-2SJ	10	(†)	**27.80**

Rating: RE-7S2—10 amp., 250 volt; RE-7SV2—7 amp., 250 volt; all other numbers listed above—250 volt, 660 watt.

* Reelites listed with 16-2 SJ cord will be supplied at extra cost with 18-3 SJ cord, one conductor being grounded to reel frame. To obtain this grounding safety feature, add "G" to catalog number when ordering as "RE-1532G," etc.

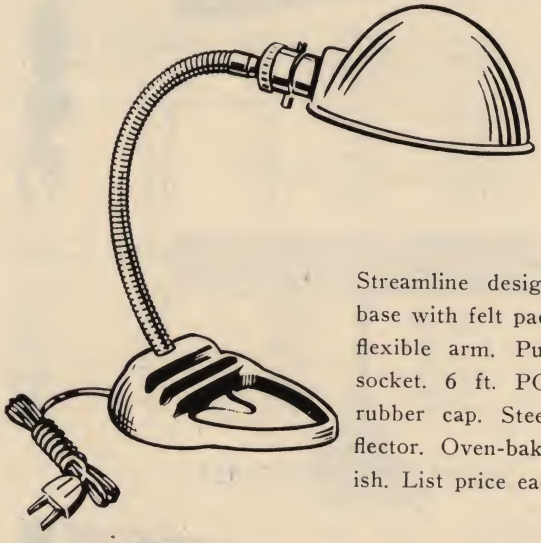
† Will not support weight of handlamp.

‡ Designed for cloth cutting machine use.

ACCESSORIES FOR PORTABLE REELITES

No.	Max. Lamp Watts	Description	Wgt. Oz. Each	List Price Each
RE-H1	100	Guard, Wood Handle, Switch, Half Reflector	17	**$4.41**
RE-H2	100	Guard, Rubber Handle, Less Switch, Half Reflector	19	**3.36**
RE-H2S	100	Guard, Rubber Handle, Switch, Half Reflector	19	**4.04**
RE-H3SR	100	Guard, Plastic Handle, Switch, Receptacle, Half Reflector	18	**4.67**
RE-H4S	100	Lighter and Smaller than Standard Unit, Rubber Handle, Switch, Half Reflector	14	**1.68**
RE-H4SR	100	Lighter and Smaller than Standard Unit, Rubber Handle, Switch, Receptacle, Half Reflector	14	**2.10**
RE-CB1	...	Machine Tool Receptacle Connector Body	14	**1.31**
RE-KS1	200	Composition Key Socket	4	**1.52**

NO. 310-C DESK LIGHT



Streamline design. Heavy cast base with felt pads. Twelve-inch flexible arm. Push-thru switch socket. 6 ft. POSJ cord with rubber cap. Steel parabola reflector. Oven-baked bronze finish. List price each **$3.00**



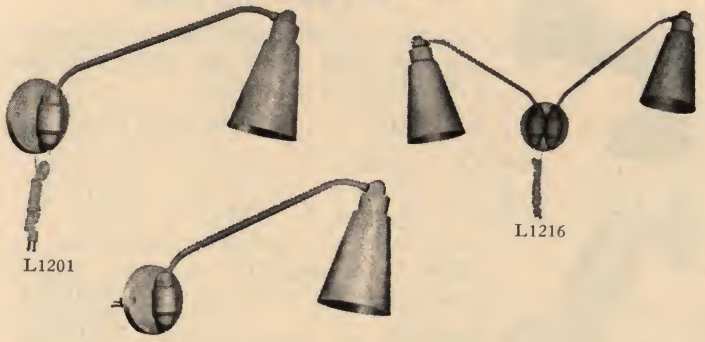
NO. 500 S & M FLOOD LAMP HOLDER

For outdoors — weatherproof. Base serves as an outlet box cover or can be mounted on post, ceiling or wall. Porcelain socket, approved rubber cord and plug which enters socket housing through waterproof connection. Cadmium plated.

No. 500—Holder. List price each.. **$2.04**

SWIVELIER UNIVERSALLY ADJUSTABLE LIGHTING FIXTURES

STUNNING "WALLITES"



Stays put . . . at any angle, spring-tension swivel, 90° verticat—350° horizontal adjustment. Indirect lighting. Cosmopolitan shade accommodates up to 100-watt regular or 75-watt R30 lamp.
Color Selection: To catalog no. add letter designation for color desired—(GN for green, YE for yellow, RO for rose, GY for gray, AN for silver glow, and BG for brass glow).

No. 1201—Single arm; canopy, for 3¼" or 4" box, leads, switch. List price each..... **$12.95**

No. 1211—Single arm; canopy, **Shur-mount**, 8' cord and plug, switch. List price each..... **17.75**

No. 1216—Twin arm; canopy, **Shur-mount**, 8' cord and plug, two switches. List price each..... **25.50**

NO. H57 SINGLE HOOD UNIT



On combination plate 4¾" O.D. has knockouts for use on 3¼" or 4" boxes. Wired with No. AF leads, extending 12" beyond plate. Finish—infra-baked aluminum. Heavy gauge shade for R40 or Par 38 bulbs. Recommended 150 watt bulb only.

No. H57—Swivelier hood shade, ind. boxed, 6 to carton. List price each **$8.05**

NO. 547L ADJUSTABLE SOCKET ON PLATE



No. 547L single socket on 3½" and 4" flat box plates. Inexpensive fixture for Stot-lites in store windows, show cases, theatres, factories, farms, etc. Unaffected by vibration, "stays put at any angle." Porcelain keyless mechanisms—600W., 250V. Push thru mechanisms—600 W., 250V. Wired units come with 12-inch wire leads. Specifications—flat plate, 14 gauge steel with slotted holes. Over-all 4⅛".

No. 547L—Porcelain 12" No. 18AF leads, ind. boxed, 10 to carton. List price each **$2.30**

NO. 57 SINGLE SOCKET ON COMBINATION PLATE



Completely assembled—ready to install. Wired with leads. Specifications—combination plate, 4¾" O.D., has knockouts for use on either 3¼" or 4" boxes. Punch out holes required. Wire with leads.

No. 57—Overall length 4¾". 10 to a carton. List price each **$2.65**

NO. 945-4 WEATHERPROOF GASKET
NEOPRENE RUBBER



Fits on porcelain and hugs neck of outdoor Par 38 bulbs, making tight seal. Makes simple and inexpensive "yard-light" for use on farms, garages, parking lots, etc. Gasket seals out moisture. For outdoor use.

No. 945-4—Gasket. Standard package 50. List price each **$0.20**

NO. 2547 SOCKET CLUSTER UNITS



With leads on dome plate. Completely assembled, ready to install. Fits 3¼" or 4" outlet boxes. Specifications—multiple adjustable sockets, mounted on one (1) domed plate, 4¾" O.D. Plate attaches to outlet box with machine screw in center of plate, threads into strap supplied. Socket wired with 12" AF lead.

No.	No. Sockets	Std. Pkg.	Ctn.	List Price Each
2547	2-Cluster	1	10	**$4.35**
3547	3-Cluster	1	10	**6.55**
4547	4-Cluster	1	10	**8.70**

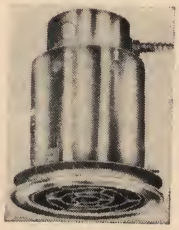
NO. 107 SCREW-IN ADAPTER TYPE SOCKETS
COMPLETELY WIRED—READY TO SCREW IN



Easy to install. Screw into existing receptacle. Converts any rigid socket into a universally adjustable spot lite. Provides adjustable lighting from recessed ceiling fixtures. "Puts light on the spot." Stays put at any angle. Adjustable 350° horizontal, 90° vertical. With porcelain keyless mechanism—660W., 250V. Over-all length 5¼".

No. 107—Screw-in Socket. Std. pkg. 10. List price each..... **$1.85**

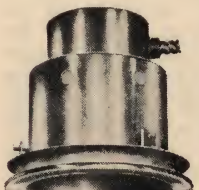
STANDARD "TOP-LITE"
FOR RECESSED CEILING



Complete with louver. Comes with clips into which you can insert split-color lens. (See below.) With the color lens you can use only Par 38 bulb . . . without the color lens, you can use either the Par 38 or R40 bulb. Over-all height 8$\frac{7}{16}$", width 7¼".
Sturdy steel construction, designed for recommended 45° louvering. Very efficient in masking light source and preventing glare. Infra-baked aluminum lacquer louver fits into recesses provided.

No. 811—"Standard," with 4 ft. Greenfield. List price each **$9.35**
No. 829—"Standard" without Greenfield. List price each.. **8.80**

JUNIOR "TOP-LITE"



Heavy gauge aluminum, steel plaster rings, "Squeeze-type" connector, No. 14AF leads, edge of lip rolled for improved appearance. **Knockouts** provided for extra wiring. Lip . . . brush satin finish, infra-baked lacquer, ventilated. Complete one-piece assembly for quick, easy installation. Overall height 6½", width 7¼".

No. 807—"Junior" with 4 ft. Greenfield. List price each.... **$7.00**
No. 828—"Junior" without Greenfield. List price each..... **6.45**

SWIVELIER LOUVER



Designed for 45° louvering demanded by lighting specialists. Extra sturdy construction, made of steel. Outside ring diameter 6". Especially efficient in masking the light source and preventing side glare. Spring clips on louver. Accommodate color lens.

V-Louver—Ind. wrapped and boxed. 12 to carton. List price each..... **$1.50**

SECTIONAL COLOR LENS



No.	Color	List Price Each	No.	Color	List Price Each
999-1	Ruby Red	**$0.95**	**999-8**	Magenta	**$0.95**
999-2	Deep Blue	**.75**	**999-9**	Medium Red	....
999-3	Medium Green	**.75**	**999-10**	Surprise Pink	**.95**
999-4	Medium Amber	**.75**	**999-11**	Light Amber	**.75**
999-5	Pink	**.75**	**999-12**	Lemon Yellow	....
999-6	Daylight Blue	**.75**	**999-13**	Light Green	**.75**
999-7	Medium Blue	**.95**	**999-14**	Blue Violet	**.95**

STONCO ISLAND LIGHT



Heavy steel 24 gauge porcelain enameled reflector 20" diameter, finished white enamel and either dark green, brilliant red, cream or dark blue on the outside. All wiring enclosed inside, all aluminum double yoke hollow-arm construction that supports a built-in weather proof cast aluminum dome box to which 5 lampholders can be added at any time. Dome splice box, tapped ½" IPS, has removable cast aluminum side cover for installation of wires. Entire unit slips on 2" pipe or pole. Regularly equipped with mogul socket for 300W and 500W, PS40 bulbs. Where medium bipost socket is desired for T-20 500W or T24 750W or 1000W bulb affix the letter "F" after desired catalog number.

No.	Description	Std. Pkg.	Wgt. Lbs.	List Price Each
1-R	With tapped bonnet holding 1 to 5 lampholders	1	13½	$21.88*

HIGH POWER SUPER-SPOT



For outdoor use where a long-throw, oval-shape, narrow, flood-lighting beam of high intensity, recommended as in protective lighting of railway sidings, switch and loading area, ship yard docks, air terminals and other industrial property, also recommended in supplementary lighting of gasoline service stations, parking areas, roadside stands, building fronts, church spires, sports areas and other localized floodlighting applications.

Made of non-corrosive, heavy-duty cast aluminum throughout, with adjustable swivel arm ½" threaded NPT to fit a variety of standard interchangeable Stone accessories. Utilizes new 300W PAR-56 100,000 candlepower sealed beam reflector lamp, lamp holder construction permitting lamp rotation to any fixed position for concentration of oval shape beam over exact area to be covered. All wiring completely enclosed. Approved Underwriters' Laboratories, Inc.

56	Less lamp	6	28	$14.50

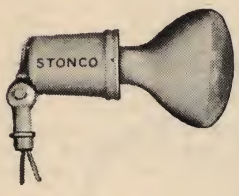
STONE MEDIUM BASE LAMP HOLDER



"Cushion seal" with high temperature, silicone rubber cushion seal and maximum lamp cooling features. For all PAR 18 and R-40 medium base reflector lamps in the standard 150W, 200W and 300W sizes. Cast aluminum, glazed procelain heat-proof medium base socket completely wired with lead wires extending. Arm ½" IPS. Fully UL approved.

150-L	Medium Base Lamp Holder	36	32	$3.13*

STONE MOGUL "CUSHION SEAL"



For all R-40 Mogul Base Lamps in the standard 300W and 500W sizes as well as the R-60 and R-80 lamps up to 1000W. Cast aluminum, glazed porcelain heat-proof Mogul socket completely wired with lead wires extending. Arm ½" IPS, with high temperature silicone rubber-seal and maximum lamp-cooling features. Fully UL approved.

350R	Mogul Lamp Holder	24	30	$7.08*

STONCO SINGLE LIGHT LAMP HOLDER



No. 2 cast aluminum box plate for 150W, 200W and 300W medium base PAR 38 and R-40 lamp.

No. 20011.....List Price Each **$3.71***

* Without Lamps.

STONCO SINGLE LIGHT ASSEMBLIES



LAMP HOLDERS

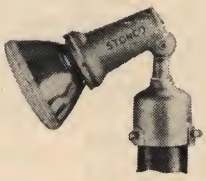
No. 24 cast aluminum box and necessary plugs for 150W, 200W and 300W med. base PAR-38 and R-40 lamps.

No. 20021.....List Price Each **$6.14***



No. 2-WP cast aluminum wall bracket for 150W, 200W and 300W med. base PAR-38 and R-40 lamps.

No. 20031.....List Price Each **$3.65***



No. 6 pipe slip fitter for 1¼"-1½" pipe for 150W, 200W and 300W med. base PAR-38 and R-40 lamps.

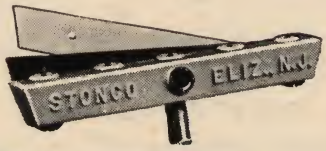
No. 20041.....List Price Each **$5.11***

STONCO MULTILITE WIRING TROUGH



Cast aluminum; provides ample room for as many circuits as desired. Nine openings tapped ½" IPS to hold from 2 to 8 lamp holders. Supplied with 3 No. 12 plugs. Weather-tight and fully UL approved.

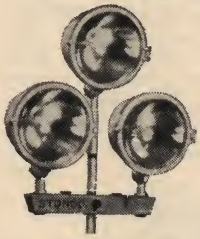
No. 10.....List Price Each **$5.21**



New wiring trough, cast aluminum, for 2 to 8 lamp holders, back cover and gasket.

No. 14 Wiring Trough.....List Price Each **$5.21**

STONCO CLUSTER LIGHT ASSEMBLIES



51503



51343



21405

Nos. 51503 and 51343 made with No. 56 Stanco Spotlite, standard ½" interchangeable Stanco components that provide weatherproof assemblies that can be quickly wired in the shop. Units listed include all necessary accessories for complete assembly.

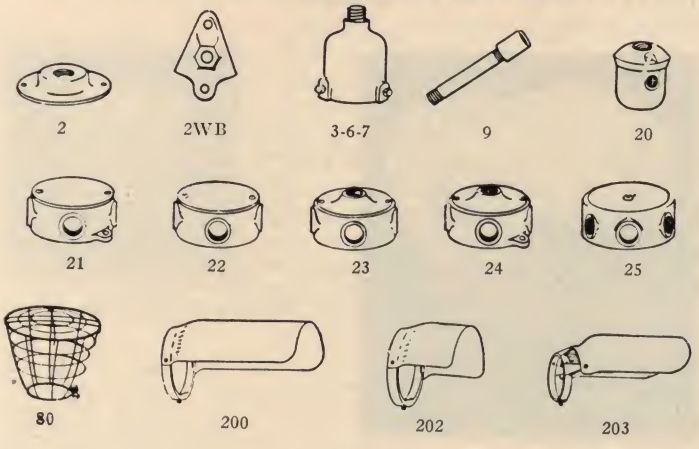
No.	Lights	Splice Box	Conduct Attach	List Price Each
51503	3	No. 14	½"	$49.60*
51343	3	No. 22	1¼-1½"	47.56*

No. 21405 made with No. 25 round splice box and standard interchangeable Stanco components. Quick assembly at shop. All wiring completely enclosed. UL approved.

No.	Holders	Splice Box	Pipe Mounting	List Price Each
21405	5-150L	No. 25	½"	$17.83*

* Without Lamps

STANCO LIGHT FIXTURES ACCESSORIES



No.	Description	Std. Pkg.	List Pr. Each
2	Box Plate, comb. ¾" cast aluminum tapped ½" IPS	100	$0.58
2WB	Wall Flange, cast aluminum tapped ½" IPS	100	.52
3	Pipe Slip Fitter for 2½-3" pipe, cast aluminum with ½" close nipple	24	3.33
6	Pipe Slip Fitter for 1¼-1½" pipe, cast aluminum with ½" close nipple	24	1.98
7	Pipe Slip Fitter for 2" pipe, cast aluminum with ½" close nipple	24	1.98
9	Pipe Extension, 4½x½" (with coupling)	100	.52
20	Acorn Cluster Fitting, cast aluminum for 1 to 3 lamp holders	24	2.50
21	4-Hole Aluminum Junction Box with mounting lugs, stamped cover	24	2.50
22	4-Hole Aluminum Junction Box with stamped cover	24	2.08
23	4-Hole Aluminum Junction Box with cast aluminum cover tapped ½" IPS	24	2.40
24	4-Hole Aluminum Junction Box with mounting lugs and cast aluminum cover tapped ½" IPS	24	2.81
25	6-Hole Aluminum Junction Box with stamped cover	24	2.71
80	Wire Guard for 150-L and 350-R holders, cadmium plated steen	12	1.77
200	Long Glare Shield for 30-A, 150-B and 530-D holders, aluminum cast and sheet with air-cooled construction	12	2.81
202	Short Glare Shield for 30-A, 150-B holders, aluminum cast and sheet with air-cooled construction	12	2.08
203	Glare Shield for 150LN, 350R, test and sheet aluminum	12	2.81

JACKSON YARDLIGHTS



One piece, sturdily constructed, heavy gauge steel. White inside, green outside with three coats vitreous porcelain enamel. Designed and constructed to withstand wind and weather conditions.

No.	Reflector Diam.	Overall Lgth.	Std. Pkg.	List Pr. Ea.
8972	12"	26"	25	$5.20
8974	14"	27"	25	5.60
8976	16"	28"	25	6.60

OAMCO REFLECTORS

HALF REFLECTOR

For standard 2¼" shade holders. Made of steel, finished durable green outside, aluminum bronze inside.



No.	Watts	Length	Std. Pkg.	List Price Per 100
959	25-40	4 1/16"	25	$60.70
959B	60-100	4⅞"	25	71.55



DEEP CONE

For standard 2¼" shade holders. Made of steel, finished durable green outside, white inside.

No.	Watts	Dia.	Std. Pkg.	List Price Per 100
547A	60	8"	25	$44.90
547B	100	10"	25	52.75
547C	150	12"	25	69.00

NEW "UNIVERSAL JOINT" (45°) ALIGNER

Allows unit to hang plumb when suspended from outlet boxes mounted on surfaces having as much as a 45 degree slope. Attach to standard 1½" depth boxes. Finish is sprayed aluminum over electro-plating. Tapped ½".



No.	Outlet Box Aligner Fits	Std. Pkg.	List Price Each
N-3380	3¼" and 4" Round and Octagon	10	$0.75

"BENCO" WEATHERPROOF SOCKETS AND HOLDERS



"Benco" Sockets have Type "S" (1 1/16" Diam.) Screw Thread. Rated at 660 Watts, 600 Volts: Pull chain rated at 660 Watts, 250 Volts—Medium Base. Tapped for ½" Iron Pipe connection. Sockets and Shade Holder in polished aluminum.



No.	Description	Std. Pkg.	List Price Per 100
4200	"Benco" Keyless Socket	50	$ 96.00
4225	"Benco" Pull Chain Socket	50	220.00
4215	"Benco" 2¼" Threaded Holder	50	37.00
4217	"Benco" 3¼" Threaded Holder	50	56.00

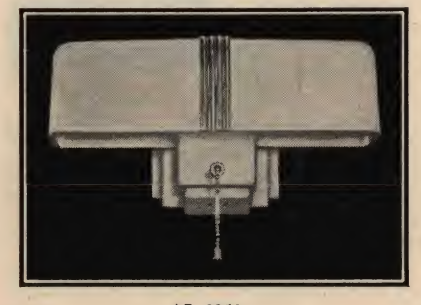
REFLECTOR AND BRACKET "UNIT PACKAGES"



Units consist of a porcelain enameled steel reflector, a detachable cast iron hood, a medium base receptacle, a section of ½" conduit with wall fitting and two 24" lengths of No. 14 gauge rubber covered solid copper single conductor wire. Reflectors are green outside, white inside.

Lamp Watts	No.	Dia. In.	Std. Pkg.	List Price Each
100	1912	12	5	$4.60
150	1914	14	5	5.00

ALABAX PORCELAIN LIGHTING FIXTURES



AL-2850

With glass shade easily removed for cleaning. Uses two 75 watt lamps. Width 10¾", height 5½", extends out 5¼" for 3¼", 4" or switch boxes. Pull fixtures use "T" rated switch.

No.	Description	Std. Pkg.	List Price Each
AL2850	Pull with outlet	12	$9.25
AL2851	Pull with no outlet	12	8.95
AL2852	Keyless, with outlet	12	8.60
AL2853	Keyless, no outlet	12	8.32
AL2854	Glass only	12	4.97



AL-2390

With glass, use 100 watt lamp. Height 4⅝", width 4⅝", extends out 7⅝". For 3¼", 4", or switch boxes.

No.	Description	Std. Pkg.	List Price Each
AL-2390	Pull, with P&S No. 1420, white, outlet having double contacts	12	$4.59
AL-2391	Pull, no outlet	12	4.32
AL-2392	Keyless, with P&S No. 1420, white, outlet having double contacts	12	4.32
AL-2393	Keyless, no outlet	12	4.02
AL-2394	Glass only	12	1.74



AL-2380

For kitchen or bathrooms. With glass uses 100 watt lamp. Length 5", width 4½", extends out 7½". For 3¼", 4", or switch boxes.

No.	Description	Std. Pkg.	List Price Each
AL-2380	Pull, with P&S No. 1420, white, outlet having double contacts	12	$4.68
AL-2381	Pull, no outlet	12	4.39
AL-2382	Keyless, with P&S No. 1420, white, outlet having double contacts	12	4.39
AL-2383	Keyless, no outlet	12	4.11
AL-2384	Glass only	12	1.75



AL-9234

The shade is held in position by a porcelain ring inside the glass—no shade holder screws are used. With glass, uses 100 watt lamp. For 3½", 4", or switch boxes. Diameter 5", extends out 8¼". For 3¼", 4", or switch boxes.

No.	Description	Std. Pkg.	List Price Each
AL-9234	Pull, with P&S No. 1420 white outlet, having double contacts	12	$4.65
AL-9235	Pull, no outlet	12	4.37
AL-9236	Keyless, with P&S No. 1420 white outlet, having double contacts	12	4.37
AL-9237	Keyless, no outlet	12	4.07
AL-3074	Glass only	12	1.86



AL-2624

Equipped with a totally enclosed shade, with a crystal clear bottom. Rest of shade being white enamel. 3¼" fitter. Use 100 watt lamp. Diameter at base 5". Extends out 8¼". For 3¼", 4", or switch boxes.

No.	Description	Std. Pkg.	List Price Each
AL-2624	Pull, with outlet	12	$5.13
AL-2625	Pull, no outlet	12	4.76
AL-2626	Keyless, with outlet	12	4.78
AL-2627	Keyless, no outlet	12	4.39
AL-2329	Glass shade only	12	1.70



AL-3140-1



AL-2007-ND

AL-3140-1—Keyless, dia. 5½"; extends down 2⅜" for 3¼" and 4" boxes.

No.	Description	Std. Pkg.	List Price Each
AL-3140-1	—Keyless	12	$1.79

AL-2007-ND—Diameter 4¾"; extends down 3⅝". For 3¼" or 4" boxes.

No.	Description	Std. Pkg.	List Price Each
AL-2007-ND	Pull, short chain, long cord	12	$1.86
AL-2011-ND	Keyless	12	1.67

ALABAX LIGHTING FIXTURES



2300

With glass, moisture proof, for use in wet location. Popular for bathrooms, showers, dairies, barns, etc. Wires and sockets are sealed with a special cement, supplied with two rubber gaskets for the purpose of giving a tighter fit where moisture might seep in. One gasket between fixture and ceiling, the other, at a point where the glass globe screws into the fixture base. All use 25 to 100 watt lamps. Diameter of base $5\frac{7}{32}$". For 3¼" or 4" boxes.

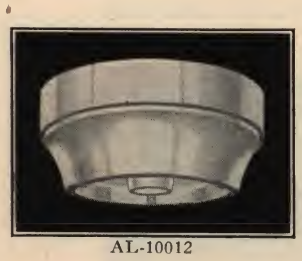
No.	Description	Extends Down	Std. Pkg.	List Pr. Each
AL-2300	Fixture with 5" CRC glass.....	6¼"	12	$3.72
AL-2304	Glass only		12	1.35
AL-2303	Fixture with 5" OPAL glass.....	6½"	12	3.72
AL-2307	Glass only		12	1.94
AL-2301	Fixture with 6" CRC glass.....	7¼"	12	4.05
AL-2305	Glass only		12	1.40



AL-2297

Used largely in hospitals, will supply two types of light, medium base socket for lamps up to and including 100 watts. The smaller lamp is T-10 a night light protected and shielded by a chrome plated reflector. The glass shade and the chrome reflector may be revolved. Two convenience outlets for servicing electrical appliances and instruments. Complete opal glass shade Main light controlled by pull socket, night light controlled by T rated push switch.

No.	Length	Width	Extend Out	List Price Each
AL-2297	6"	5"	7¾"	$9.48
AL-2209	Glass shade only			1.67



AL-10012

Fitter size 4", diameter 6½"; extends down 2¾". For 3¼" or 4" boxes.

No.	Description	Std. Pkg.	List Price Each
AL-10012	Keyless ...	12	$2.71
AL-10013	With Levolier T rated switch, short chain, long cord	12	3.34



AL-2604

THE OUTDOOR LANTERN WITH GLASS

A lifetime quality fixture for use on the outside of a house. All-porcelain, will not rust, deteriorate or discolor wall. Clear glass has enclosed bottom. Uses 75 watt lamp or smaller. Diameter at base 4¾"; extended out 5¾". For 3¼", 4" or switch boxes.

No.	Description	Std. Pkg.	List Pr. Each
AL-2604	Keyless, black glaze, no outlet.....	12	$5.04
AL-2605	Keyless, brown glaze, no outlet	12	5.04
AL-2606	Glass only	12	.95

INLAND GLASSWARE

I. E. S. SHADES

For Floor Lamps
Sizes to Fit All Types I. E. S. Lamps



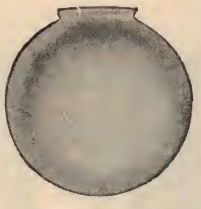
A-58



B-57

No.	Sizes	Std. Pkg.	List Price Each
A-52	2¼"x5$\frac{15}{16}$"	12	$1.17
A-54	2¼"x8"	6	1.32
A-55	2⅝"x10"	6	1.95
A-56	2⅝"x9⅜"	6	1.89

No.	Sizes	Std. Pkg.	List Price Each
B-56	2⅝"x9⅜"	6	$1.89
A-57	2¾"x10"	6	1.95
B-57	2¾"x10"	6	1.95
A-58	2¼"x10"	6	1.95



BALL GLOBES
SNOW WHITE

No.	Size	List Price Each
2412	3¼x 6	$1.17
2416	3¼x 7	1.41
2420	3¼x 8	1.50
2422	4 x 8	1.50
2432	6 x 9	3.57
2436	4 x10	3.66
2438	5 x10	3.66
2440	6 x10	3.66
2442	7 x10	3.66
2446	4 x12	5.49
2448	5 x12	5.49
2450	6 x12	5.49
2452	7 x12	5.49

No.	Size	List Price Each
2454	8 x12	$5.49
2460	8 x13	7.26
2464	6 x14	7.26
2468	7 x14	7.26
2470	8 x14	7.26
2474	6 x16	9.03
2476	7 x16	9.03
2478	8 x16	9.03
2480	9 x16	9.03
2482	6 x18	18.36
2486	8 x18	18.36
2492	8⅛x20	30.60

GLASSWARE

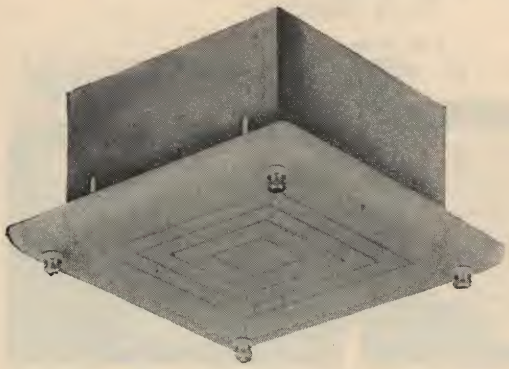
NO. "70" LINE



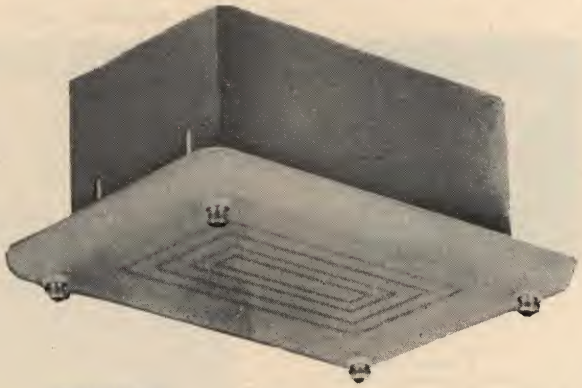
SNOW WHITE

No.	Glass Size Dia.	Glass Size Depth In.	Glass Size Fitter In.	Recommended Lamp Size Watts	Ship. Wt.	Std. Pkg.	List Price Each in Std. Pkg.
7008	8	5½	4	60	19	12	$1.95
7009	9	5¾	4	75	23	12	2.10
7010	10	6¼	4	100	25	12	2.40
7012	12	7	4 or 6	150	20	6	3.93
7014	14	8	6	200	12	2	5.04
7016	16	10	6	300	8	1	7.44
7018	18	11	6 or 8	500	10	1	11.46

ATLITE FLUSHED RECESSED INCANDESCENT FIXTURES



Moulded glass panel tempered to avoid breakage from heat of lamp. Ceramic finish to avoid peeling. All recessed with reflectories. Boxes all steel. Joints electrically welded, with asbestos heat insulation. These units can be supplied with plastic frames at an additional cost. Listed by U.L. Inc.

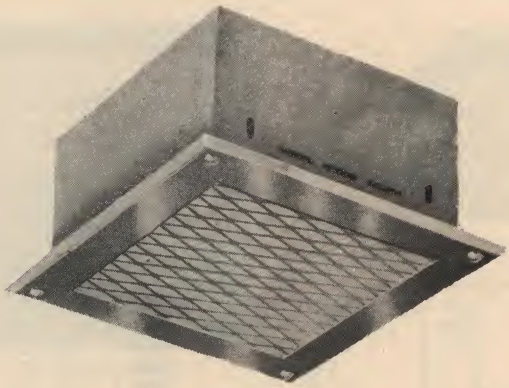


SQUARE

No.	Box Size	Glass Size	Depth	Lamp Watt	No. Lps.	Std. Pkg.	Pkg. Wgt. Lbs.	List Pr. Ea.
66M	6¾"x6¾"	9"x9"	4"	60W	1	6	36	**$10.80**
88M	8¾"x8¾"	11"x11"	4"	100W	1	3	24	**14.40**
101M	10¾"x10¾"	13"x13"	4"	150W	1	3	35	**18.00**

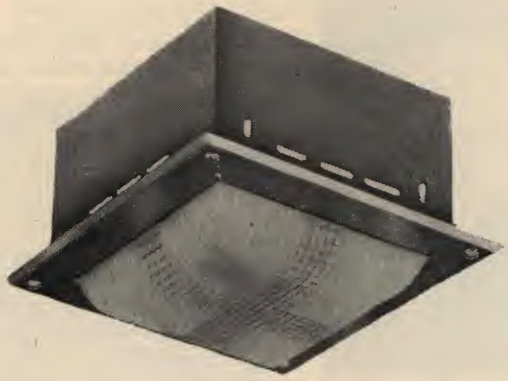
OBLONG

No.	Box Size	Glass Size	Depth	Lamp Watt	No. Lps.	Std. Pkg.	Pkg. Wgt. Lbs.	List Pr. Ea.
47M	4¾"x7¾"	7"x10"	4"	60W	1	6	36	**$10.80**
51M	6¼"x10¼"	8½"x13"	4"	100W	1	6	48	**14.40**



No.	Box Size	Frame Size	Depth	Lamp Watt	No. Lps.	Std. Pkg.	Pkg. Wgt. Lbs.	List Pr. Ea.
5470C	4¾"x7¾"	6"x9"	4"	60W	1	12	37	**$6.45**
5660C	6¾"x6¾"	8"x8"	4"	60W	1	12	37	**6.45**
5510C	6¼"x10¾"	7½"x12"	4"	100W	1	6	25	**9.30**
5880C	8¾"x8¾"	10"x10"	4"	100W	1	6	25	**7.35**
51010C	10¾"x10¾"	12"x12"	4"	150W	1	6	35	**9.60**

When ordering for aluminum spray finish substitute the letter A—Example 5470A.



No.	Box Size	Frame Size	Depth	Lamp Watt	No. Lps.	Std. Pkg.	Pkg. Wgt. Lbs.	List Pr. Ea.
541C	4¾"x7¾"	6"x9"	4"	60W	1	12	40	**$8.85**
561C	6¾"x6¾"	8"x8"	4"	60W	1	12	40	**8.85**
5511C	6¼"x10¾"	7½"x12"	4"	100W	1	6	30	**9.75**
581C	8¾"x8¾"	10"x10"	4"	100W	1	6	35	**9.75**

When ordering for aluminum spray finish substitute the letter A—Example 541A.

ATLITE RECESSED SHOWER LIGHT



Frame brass, chrome plated. Equipped with dropped glass and rubber gasket. Porcelain socket and junction box listed by U.L.

No.	Box Size	Frame Size	Depth	Lamp Watt	No. Lps.	Std. Pkg.	Pkg. Wgt. Lbs.	List Pr. Ea.
407	4½" Diam.	7¼" Diam.	5"	40W	1	1	18	**$7.20**

POLISHED CHROME—OPAL GLASSWARE FIXTURES



No.	Lamps	Glass Diam.	Depth	Std. Pkg.	Wgt. Lbs.	List* Pr. Ea.
2006	2-40W	7½"	5"	12	12	**$5.25**
2008	2-60W	9½"	5"	12	12	**6.00**
2010	2-75W	11½"	5½"	12	12	**8.10**
2012	3-75W	13½"	5½"	6	6	**11.25**
2014	3-100W	15½"	6"	1	1	**16.05**
2016	3-100W	17½"	6½"	1	1	**20.70**

* Lamps not included.

ECLIPSE GLO-SIGNS

Illuminated directional signs adaptable to most situations and an ornament to any building. Fnish: satin chrome. Sign: clear plate glass with sandblasted letters. Size of back plate 4¼"x12". Lamp: 25 watt—T-10 clear.



No. D-801
Ceiling mounting single face. List price each **$10.00**



No. D-812
Ceiling mounting double face. List price each **$14.00**

No. D-701
Horizontal wall mounting. List price each **$10.00**

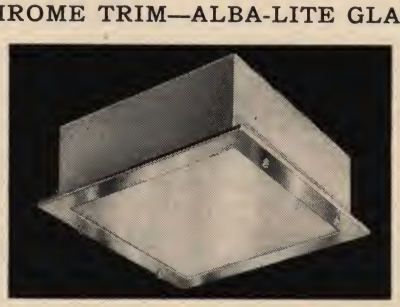


No. D-803
Vertical wall mounting, right facing.
List price each.....**$10.00**

No. D-804
Vertical wall mounting, left facing.
List price each.....**$10.00**

No. D-834
Vertical wall mounting, double face.
List price each.....**$14.00**

RECESSED INCANDESCENT FIXTURES
CHROME TRIM—ALBA-LITE GLASS



No.	Lamp	Box Size	Depth	Trim Size	List Price Each
Square					
3306	1-60w	6¾	4¼	8	**$5.40**
3308	1-100w	8⅜	4¼	10	**6.40**
3310	1-150w	10¾	4¼	12	**7.00**
Oblong					
3447	1-60w	4¾x 7¾	4¼	6 x 9	**5.40**
3460	1-100w	6¼x10¾	4¼	7½x12	**6.60**
3470	1-150w	7¾x10½	4¼	9 x12	**7.00**
Round					
3506	1-60w	6	4¼	7½	**5.40**
3508	1-100w	8	4¼	10	**6.40**

ECLIPSE EXITLITES

A Standard Line of Approved Exit Fixtures
Finish: Statuary Bronze, 6" White Letters on Red Background



SURFACE EXIT

Size 8"x13"x3½".

No. E-101
List price each.....**$6.60**



CEILING EXIT

Box size—8"x13"x3½".

No. E-201
Single face.
List price each.....**$9.60**

No. E-202
Two face.
List price each.....**$12.00**

WALL MOUNTED EXIT



Box size—8"x13"x3½".
Extended 13½".

No. E-301 (Single Face)
List price each.....**$9.60**

No. E-302 (2-Face)
List price each **$12.00**

RECESSED EXIT

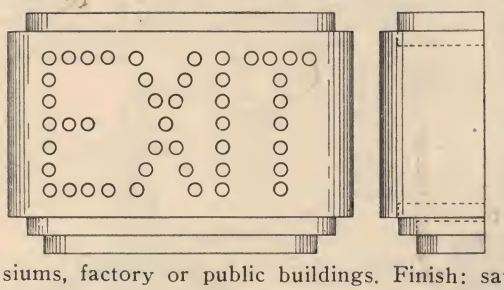


Box size—8"x13½"x3.
Trim size—9½"x14¾".

No. E-401
Bronze trim.
List price each.....**$10.00**

No. E-411
Chrome finish.
List price each.....**$12.00**

ECLIPSE "EXIT" LIGHT



Made of steel—**no glass used.** A small portion of light is directed downwards, lighting the door or window as well as some upward light, making the **EXIT** visible for quick egress. For theatres, gymnasiums, factory or public buildings. Finish: satin aluminum.

No.	Lgth.	Hght.	Depth	Socket	List Price Each
3500	12"	9¼"	4"	1	**$10.08**

May be used as **directional signs.** Where used as such an ivory color is employed instead of red. Designations: ladies, men, check room, lounge, exit-lockers (dimensions changed because of different lettering).

	Ladies	Men	Check Room	Check Room-Lounge	Exit-Lockers
List price each:	**$10.08**	**$10.08**	**$13.20**	**$15.00**	**$15.00**

BENJAMIN LIGHTING EQUIPMENT

"1800 SERIES" REMOVABLE REFLECTOR FIXTURES

Reflector is easily attached to or removed from the hood. Hoods are cast iron and extremely shallow for ease in wiring; tapped ½" standard. Each hood takes any of the "1800 Series" reflectors. Reflectors are green outside, white inside. (Standard package, ten.)



Pendent E-18



Angle L-18



Feed-Thru T-18



Outlet Box C-18

WITH MEDIUM BASE KEYLESS SOCKET			
$0.60	$0.60	$0.80	$0.60
WITH MEDIUM BASE PULL CHAIN SOCKET			
$0.60	$0.60	$0.80	$0.60
WITH MOGUL BASE KEYLESS SOCKET			
$0.60	$0.60	$0.80	$0.60



DOME REFLECTOR ONLY

No.	Lamp Watts	Diam. Inch	Std. Pkg.	List Pr. Ea.
1801	100	12	10	$2.80
1802	150	14	10	3.30
1803	200	16	10	3.80
1804	300. 500	18	5	4.75



SHALLOW DOME REFLECTOR ONLY

1811	50, 75	10	10	$2.80
1812	100	12	10	2.80
1813	150	14	10	3.30
1814	200	16	10	3.80



SYMMETRICAL ANGLE REFLECTOR ONLY

1821	50, 75	8	10	$1.90
1822	100	8	10	1.90
1823	150	10	10	2.10
1824	200	12	10	3.60
1825	300, 500	14	5	4.30



ELLIPTICAL ANGLE REFLECTOR ONLY

1831	100	12¾	10	$3.05
1832	150	12¾	10	3.95
1833	200	16¼	10	4.70

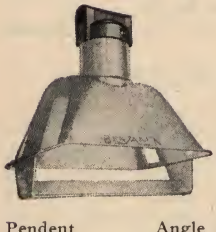


"MASTER" SIGN REFLECTORS

Suitable for lighting large signs such as Standard and Three Sheet Poster Panels, Roof and Wall Signs, etc. Elliptical shape porcelain enameled steel reflector, side outlet, eliminating offsets, street ells, etc. Finish white inside, green outside. Angle "X" style weatherproof separable fitting tapped ½" standard, ¾" if specified.

No.	Lamp Watts	Diam. Inches	Std. Pkg.	List Pr. Ea.
5570	150	13½x9⅛	9	$4.60
5571	200, 300†	13½x9⅛	9	5.35

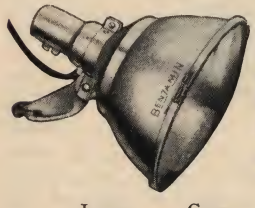
† Medium base.



"STOCK-BIN-LITE"

Provides uniform illumination from top to bottom of rows of books, shelving, etc. Lamp is shielded to prevent glare when looking down aisle. Reflector is deep-trough shape porcelain enameled steel, white inside and out. Apertures at each end and a V-shaped deflector bar below reflector. Pendent and Angle Hoods tapped ½" standard; ceiling hoods fit 4" standard outlet boxes.

Pendent No.	Angle No.	Ceiling No.	Lamp Watts	Std. Pkg.	List Pr. Ea.
E-1875	L-1875	C-1875	50-75	10	$4.80
E-1876	L-1876	C-1876	100	10	4.95
E-1877	L-1877	C-1877	150	10	5.10



"INTENSIFIER"

A supplementary lighting unit designed to illuminate small areas to high intensities. Permits the closest discrimination of detail and the most accurate kind of work. Reflector is highly polished Alzak aluminum. Outside finish is green lacquer; louver is black.

No.	Lamp Watts	Cover Glass	Description	Std. Pkg.	List Pr. Ea.
5603	50-100	Plain, Clear	Med. Base, Adjustable-Focus	1	$13.20
5604	150-200	Stippled, Clear	Med. Base, Adjustable-Focus	1	16.45
5637	300-500	Stippled, Clear	Mogul Base, Fixed Focus	1	24.20

BENJAMIN SHADE HOLDER REFLECTORS

With neck to fit any style of Attachable "Snap-In" Holder shown below or any Standard 2¼" Shade Holder. Porcelain enameled steel reflector; green outside, white inside.





RLM DOME REFLECTORS

No.	Lamp Watts	Diam. Inches	Std. Pkg.	List Pr. Ea.
14075S	100	12	10	$2.85
14100S	150	14	10	3.25
14200S	200	16	10	3.75

RLM BOWL REFLECTORS

12025S	*25, 40	5	10	$1.65
12060S	*50-75	7	10	2.35
12075S	100	8	10	2.50
12200S	‡200	10	10	3.25

* This size reflector does not take RLM label.
‡ Not RLM standard when used with 150 watt lamp.





RLM SYMMETRICAL ANGLE REFLECTORS

15040S	25, 40	7	10	$1.65
15060S	*50-75	8	10	2.35
15075S	100	8	10	2.50
15100S	150	10	10	3.25

SHALLOW DOME REFLECTORS

With Heel to Fit Standard Shade Holder

No.	Holder Size	Diam. Inches	Std. Pkg.	List Pr. Ea.
H410*	2¼"	10	10	$1.10
H412*	2¼"	12	10	1.25
H414*	2¼"	14	10	1.65
H416	2¼"	16	10	2.05
HN416*	2¼"	16	10	2.05

* Can be used with "Snap-In" reflector holders.

"SNAP-IN" ATTACHABLE HOLDERS



Type "A"



Type "B"



Type "P"

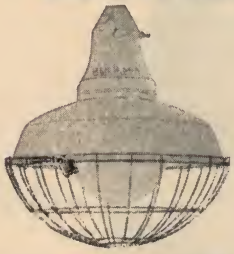


Type "S"

A quick and effective means of attaching any Benjamin Reflector with Type "N" neck for 2¼" standard shade holder to practically any type of standard socket equipment.

No.	Style Holder	Material	Finish	Std. Pkg.	List Pr. Ea.
4386	Type A	Copper	.....	10	$0.55
4383	Type S	.....	Bright Metal	10	.90
4384	Type B	.....	Nat. Bras.	10	.80
4385	Type P	.....	Bright Metal	10	1.10

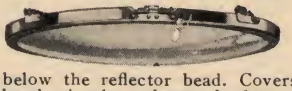
DEEP TYPE REFLECTOR LOCKING LAMP GUARDS



Clamps over bead of reflector. Can be locked. Diameter given below is that of reflector which guard fits. (Prices do not include reflector.)

No.	Diam. Reflector fits	Std. Pkg.	List Pr. Ea.
1386	12"	10	$3.05
1388	14"	10	3.55
1392	16"	10	3.80
1394	18"	10	4.60

HINGED DUST TIGHT GLASS COVERS



This line of "Dust Tight" Covers readily attaches to all Benjamin reflector equipment having circular openings and beaded edges, where the lamp does not project below the reflector bead. Covers consists of a two-piece, electro-plated steel band, circular asbestos basket and a Heat and Impact Resisting cover glass. Cover is attached to reflector by lever controlled cams on the steel band.

No.	Reflector Dia. In.	Std. Pkg.	List Pr. Ea.
N-6416	16	5	$7.10
N-6418	18	5	7.40
N-6420	20	5	9.80

No.	Reflector Dia. In.	Std. Pkg.	List Pr. Ea.
N-6408	8	5	$4.20
N-6410	10	5	4.45
N-6412	12	5	4.70
N-6414	14	5	5.85

BENJAMIN LIGHTING EQUIPMENT

"TURNLOX" RLM DOME REFLECTORS

Listed by Underwriters' Laboratories



This unit effectively illuminates both horizontal and vertical surfaces. The detachable "Turnlox" feature allows reflector and lamp to be removed as a unit for servicing. The reflector is porcelain enameled steel, green outside, reflecting white inside. Pendant and ceiling cast hoods are finished in aluminum paint. Angle cast hoods are finished in aluminum paint over cadmium plate. Hood terminal base is porcelain.

Lamp Watts	Pendant Hood No.	Pendant Hood List Price Each	Ceiling Hood No.	Ceiling Hood List Price Each	Angle Hood No.	Angle Hood List Price Each
100	7641	$5.45	9641	$5.45	3641	$5.45
150	7642	5.95	9642	5.95	3642	5.95
200	7643	6.45	9643	6.45	3643	6.45

"TURNLOX" FLAT CONE REFLECTORS

Listed by Underwriters' Laboratories

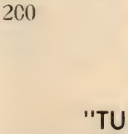


For locations where the glare from entirely unshielded lamps is not an objection and wide distribution is required. The pendant and ceiling hoods are finished in aluminum paint. Angle cast hoods are aluminum paint over cadmium. Lamp holder assemblies include a steel, cadmium-plated bayonet plate, gasket and attaching screws. Keyless, rigid porcelain body lamp holders are standard. Pendant and angle hoods are tapped ½-inch standard.

100	7411	$5.45	9411	$5.45	3411	$5.45
150	7402	5.95	9402	5.95	3402	5.95
200	7403	6.45	9403	6.45	3403	6.45

"TURNLOX" ELLIPTICAL ANGLE REFLECTOR

Listed by Underwriters' Laboratories

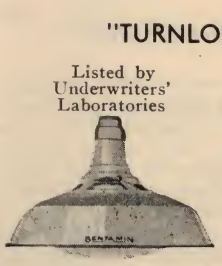


Recommended for general lighting from the side. Provides wide, even distribution of light with favorable illumination on vertical surfaces. Reflectors are porcelain enameled steel, green outside, white inside. Pendant and ceiling cast aluminum hoods finished in aluminum paint. Hood terminal base is porcelain. Keyless, rigid porcelain body lamp holders are standard. Units are not available with shock absorbing lamp holders.

100	7522	$5.70	9522	$5.70	3522	$5.70
150	7525	6.60	9525	6.60	3525	6.60
200	7526	7.35	9526	7.35	3526	7.35

"TURNLOX" RLM GLASSTEEL DIFFUSERS

Listed by Underwriters' Laboratories

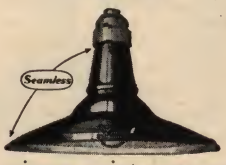


Provides soft, evenly diffused illumination on both upright and flat surfaces through the combined lighting characteristics of the opal glass diffusing globe, and the porcelain enamel reflector. Reflectors are white porcelain enamel inside and out with blue black bead. A quick-acting globe holder, controlled by a single lever permits quick globe removal. Globe holders and bayonet plates are cadmium plated.

Lamp Watts	Pendant Hood No.	Pendant Hood List Price Each	Ceiling Hood No.	Ceiling Hood List Price Each
150, 200	7201	$12.70	9201	$12.70
300, 500	7202	17.15	9202	17.15
750, 1000	7203	24.75	9203	24.75

"TURNLOX" SHALLOW DOME REFLECTORS

Listed by Underwriters' Laboratories



These units are useful in indoor and outdoor lighting where glare from partially shielded lamp is not objectionable. The reflector is porcelain enameled steel, green outside, reflecting white inside. Cut off at 77½°. Pendant and ceiling cast hoods are aluminum finished in aluminum paint. Angle cast hoods finished in aluminum paint over cadmium. Keyless, rigid porcelain body lamp holders are standard. Pendant and angle hoods are tapped ½-inch standard; ¾-inch if specified at no extra cost.

Lamp Watts	Pendant Hood No.	Pendant Hood List Price Each	Ceiling Hood No.	Ceiling Hood List Price Each	Angle Hood No.	Angle Hood List Price Each
100	7421	$5.45	9421	$5.45	3421	$5.45
150	7423	5.95	9423	5.95	3423	5.95
200	7425	6.45	9425	6.45	3425	6.45

"TURNLOX" RLM BOWL REFLECTORS

Listed by Underwriters' Laboratories



This type reflector is extremely useful for local lighting where low cut-off is desirable. Reflectors are porcelain enameled steel, finished green outside, reflecting white inside. Cut off at 60°. Pendant and Ceiling cast aluminum paint. Angle cast iron hoods finished in aluminum paint over cadmium. Hood terminal base is porcelain. Pendant and Angle Hoods are tapped ½-inch standard; ¾-inch if specified.

100	7161	$5.20	9161	$5.20	3161	$5.20
200	7169	5.75	9169	5.75	3169	5.75
300, 500	7173	7.85	9173	7.85	3173	7.85

"TURNLOX" SYMMETRICAL ANGLE REFLECTORS

Listed by Underwriters' Laboratories

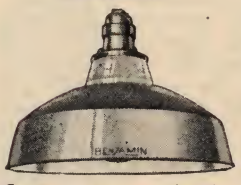


These units are best suited for localized applications in lighting from the side. Lamp holders are keyless, rigid porcelain body. Lamp holder assemblies include a steel cadmium-plated bayonet plate, gasket and attaching screws. Pendant and Angle hoods are tapped ½-inch standard; ¾-inch if specified. Reflectors are porcelain enameled steel, green outside, white inside.

100	7541	$5.00	9541	$5.00	3541	$5.00
150	7542	5.65	9542	5.65	3542	5.65
200	7546	6.25	9546	6.25	3546	6.25

BENJAMIN "SILVERED-LAMP" DIFFUSERS

Listed by Underwriters' Laboratories



These units utilize the indirect lighting properties of the silvered bowl lamp to provide well diffused illumination with a maximum of eye comfort. Available in "Turnlox" detachable hood construction and one-piece "Socket-Reflector" construction. The opal glass section extends 2⅝" above the dome section of the reflector, surrounds the skeleton neck of the unit and permits approximately 5% of the light to reach the ceiling.

Lamp Watts	Pendant "Turnlox" No.	Pendant "Turnlox" List Price Each	Ceiling "Turnlox" No.	Ceiling "Turnlox" List Price Each	Socket-Reflec. No.	Socket-Reflec. List Price Each
200	7247	$13.40	9247	$13.40	5247	$12.15
300, 500	7249	13.95	9249	13.95	5249	12.70

BENJAMIN LIGHTING EQUIPMENT

"TURNLOX" MEDIUM BASE LAMPHOLDERS

Listed by Underwriters' Laboratories



Assemblies consist of a porcelain lampholder and a steel bayonet attaching plate with composition gasket and attaching screws. Medium base lampholders have a lamp-grip spring projecting below the socket shell to retard loosening of lamps. Plate and screws for these units are cadmium plated. These lampholders are the lower component of the "Turnlox" assemblies.

No.	Description	List Pr. Ea.
2751	Keyless rigid medium base lampholder	$1.20
2752	Pull chain medium base lampholder	2.20
2753	Keyless shock-absorbing medium base lampholder	1.40
2754	Self-locking medium base lampholder	1.80

BENJAMIN "TURNLOX" HOODS

Listed by Underwriters' Laboratories

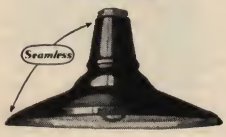


Pendant and ceiling hoods consist of a one-piece cast aluminum alloy body finished in baked aluminum paint and a porcelain terminal base. Hoods for pull switch ceiling hoods and angle type hoods have cast-iron alloy body finished in baked aluminum paint over cadmium plating with a porcelain terminal base. Both ceiling type hoods fit 4-inch outlet or round boxes. Pendant and angle hoods are tapped ½-inch standard.

7	Complete pendant type hoods	$1.40
9	Complete ceiling type hoods	1.40
19	Complete ceiling hoods for pull switch	1.90
3	Complete angle type hoods	1.40

SHALLOW DOME "SOCKET-REFLECTORS"

Listed by Underwriters' Laboratories

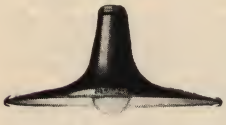


These units are of weatherproof construction with one-piece porcelain enameled steel reflectors and separable "X" type fittings which allow the reflector to be slipped back over the conduit for easy access to the socket in wiring. Self-locking sockets prevent unauthorized lamp removal. Furnished, when specified, on medium base units. Reflectors are green outside, reflecting white inside.

5437	Unit complete with keyless rigid sockets	$4.20
5437-PUL	Unit complete with pull chain rigid sockets	5.20
5437-SHB	Unit complete with keyless shock-absorbing sockets	4.40

FLAT CONE "SOCKET-REFLECTORS"

Listed by Underwriters' Laboratories



These units are of weatherproof construction with one-piece porcelain enameled steel reflectors and separable "X" type fittings which allow the reflector to be slipped back over the conduit, for easy access to the socket in wiring. Reflector cut-off is at 85°. Self-locking sockets prevent unauthorized lamp removal. Furnished, when specified, on medium base units.

5431	Complete with keyless rigid sockets	$4.20
5431-PUL	Complete with pull chain rigid sockets	5.20
5431-SHB	Complete with keyless shock-absorbing sockets	4.40

"TURNLOX" MOGUL BASE LAMPHOLDERS

Listed by Underwriters' Laboratories



Assemblies consist of a three point, steel bayonet plate with composition gasket and attaching screws. Plate and screws are cadmium plated. Lampholders have a porcelain body. Medium base holders have a lamp grip arrangement in the threaded shell which retards the loosening of lamps under vibration. Mogul base holders have a "finger" type lamp grip which assures protection against accidental loosening without interfering with lamp removal.

No.	Description	List Pr. Ea.
2760	Keyless rigid mogul base lampholder	$1.75
2762	Shock-absorbing mogul base lampholder	1.95

RLM DOME "SOCKET-REFLECTORS"

Listed by Underwriters' Laboratories



These units are of one-piece weatherproof construction with porcelain enameled steel reflectors and separable "X" type fittings which allow the reflector to be slipped back over the conduit for easy access to the socket in wiring. Self-locking sockets prevent unauthorized lamp removal. Furnished, when specified, on medium base units. Reflector is finished green outside, reflecting white inside.

5641	Unit complete with keyless rigid sockets	$4.20
5641-PUL	Unit complete with pull chain rigid sockets	5.20
5641-SHB	Unit complete with keyless shock-absorbing sockets	4.90

RLM BOWL "SOCKET-REFLECTORS"

Listed by Underwriters' Laboratories



Self-locking sockets prevent unauthorized removal of lamps. These are furnished, when specified, on medium base units. These units are of weatherproof construction with one-piece porcelain enameled steel reflectors and separable "X" type fittings which allow the reflector to be slipped back over the conduit for easy access to the socket in wiring. Reflector cut-off is at 60°.

6166	Unit complete with keyless rigid sockets	$3.70
6166-PUL	Unit complete with pull chain rigid sockets	4.70
6166-SHB	Unit complete with keyless shock-absorbing sockets	3.90

ELLIPTICAL ANGLE "SOCKET-REFLECTORS"

Listed by Underwriters' Laboratories



These units are of weatherproof construction with one-piece porcelain enameled steel reflectors and separable "X" type fittings which allow easy access to the socket in wiring. Reflector cut-off is at 72½°. Shock absorbing sockets cannot be used with these units. Self-locking sockets prevent unauthorized lamp removal. These are furnished, when specified, on medium base units. Medium base units are tapped ½-inch standard; ¾-inch when specified.

5522	Unit complete with keyless rigid socket	$4.45
5522-PUL	Unit complete with pull chain rigid socket	5.45

BENJAMIN LIGHTING EQUIPMENT

RLM SYMMETRICAL ANGLE "SOCKET-REFLECTORS"

Sockets and Fittings Listed by Underwriters' Laboratories

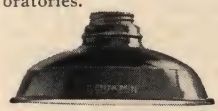


These weatherproof units have one-piece porcelain enameled steel reflectors with separable "X" type fittings which allow the reflector to be slipped back over the conduit for easy access to the socket. Self-locking sockets prevent unauthorized lamp removal. Furnished, when specified on medium-base units. Reflectors are finished green outside, reflecting white inside.

No.	Description	List Price Each
5541	Unit Complete with Keyless Rigid Sockets	$3.75
5541-PUL	Unit Complete with Medium Base Pull Chain Rigid Sockets	4.75
5541-SHB	Units Complete with Keyless Shock-Absorbing Sockets	3.95

TYPE RR LIGHTING EQUIPMENT

Hoods and Sockets Listed by Underwriters' Laboratories.



Benjamin "Type RR" Equipment meets the lighting and service requirements of locations such as railroad yards, steel mills, and industrial plants where the lighting equipment is subjected to severe mechanical strain and corrosive influences of smoke, fumes, grime, and water. Reflectors are finished inside and out with high quality procelain enameled steel which will stand up.

Complete Units with Hoods and Sockets

No.	Description of Complete Units	List Price Each
26512	RLM Dome Reflector with Pendant Cast Hood	$5.75
26532	RLM Dome Reflector with Ceiling Cast Hood	5.90
26552	RLM Dome Reflector with Pendant Steel Hood	4.95
26582	RLM Dome Reflector with Ceiling Steel Hood	4.95

TYPE 66 MEDIUM BASE RIGID SOCKETS

Listed by Underwriters' Laboratories



"Type 66" sockets incorporate features which make for easy installation and long service. Wiring is extremely simple; it takes only the matter of a moment to unscrew the molded bakelite cover at the bottom of the socket, for easy access to the heavy binding terminal screws. To prevent loosening of lamps, an effective lamp grip is incorporated in the threaded shell.

No.	Description	List Price Each
2366	Medium Base Socket with "X" Fitting	$1.35
2410	Medium Base Socket with 7/8" Adapter Strap & "X" Fitting	1.35
2420	Medium Base Socket with 2" Adapter Strap & "X" Fitting	1.35

MEDIUM BASE KEYLESS RIGID SOCKETS

Listed by Underwriters' Laboratories

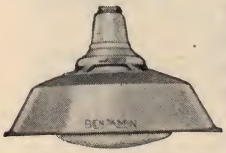


This socket is used for angle type "Socket-Reflector" units and formerly furnished with most types of "Socket-Reflector" Units. These sockets are furnished only on Elliptical Angle and Symmetrical Angle "Socket-Reflector" Units. In replacing sockets for "Socket-Reflector" units, use "Type 66" Medium base rigid sockets.

4651	Socket with "X" Fitting Tapped 1/2-inch	$1.35
4665	Socket with "X" Fitting Tapped 3/4-inch	1.35
88	Socket without "X" Fitting	.80

RLM GLASSTEEL DIFFUSER "SOCKET-REFLECTORS"

Hoods and Sockets Listed by Underwriters' Laboratories.



These units consist of a one-piece, porcelain enameled steel reflector, an opal glass diffusing globe and a socket with separable "X" type fitting. Apertures direct 11% of light to ceiling areas. A single lever on the side of the reflector allows the globe to be attached and removed easily. Reflectors are white inside and outside with a blue-black bead. Globe holder and lever are electroplated.

No.	Lamp Watts	Description	List Price Each
5201	150,200	Unit, Opal Globe, Keyless Rigid Sockets	$11.45
5202	300,500	Unit, Opal Globe, Keyless Rigid Sockets	15.90
5201	150,200	With Opal Globe and Keyless Shock-Absorbing Sockets	11.65
5202-SHB	300,500	With Opal Globe and Keyless Shock-Absorbing Sockets	16.10

"THREADED-HOOD" GLASSTEEL DIFFUSERS

Sockets and Fittings Listed by Underwriters' Laboratories



Glassteel Diffusers provide soft, evenly diffused illumination over both upright and flat surfaces, by combined lighting characteristics of the opal glass diffusing globe and the procelain enameled steel reflector. The type "RR" separable hood construction makes for easy wiring and simplified maintenance. Pendant and Ceiling hoods porcelain enameled steel; white inside and out.

26300	150,200	Pendant Hood, Socket, Reflector and Opal Globe	$11.45
26302	300,000	Pendant Hood, Socket, Reflector and Opal Globe	15.90
26304	152,000	Ceiling Hood, Socket, Reflector and Opal Globe	11.45
26306	300,500	Ceiling Hood, Socket, Reflector and Opal Globe	15.90

TYPE 66 MEDIUM SHOCK-ABSORBING SOCKETS



"Type 66" Shock-Absorbing sockets are the same as the Rigid Socket except for a special bronze spring between the porcelain socket body and the "X" type separable fitting. This spring absorbs shocks, jars and vibration and greatly lengthens lamp life. All sockets have a bakelite cover which encloses and protects the metal contacting parts of the socket for extra safety.

No.	Description of Sockets	List Price Each
2371	Standard Shock-Absorb. with "X" Fitting	$1.55
2430	Shock-Absorb. with 7/8" Adapt. Strap and "X" Fitting	1.55
2460	Shock-Absorb. with 2" Adapt. Strap and "X" Fitting	1.55

MOGUL BASE KEYLESS RIGID SOCKET

Listed by Underwriters' Laboratories



Socket No. 4657 is standard for most mogul base "Socket-Reflector" units and Type "RR" and discontinued "Sturdox," Pendant Steel Hoods. No. 4666 is standard for Elliptical Angle "Socket-Reflectors" and optional for units using No. 4657.

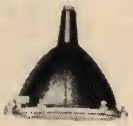
Sockets are of two-piece, porcelain construction, with a finger-type lamp grip.

No.	Description	List Price Each
4657	Socket with "X" Fitting Tapped 1/2-inch	$1.90
4666	Socket with "X" Fitting Tapped 3/4-inch	1.90
698	Socket without "X" Fitting	1.35

BENJAMIN LIGHTING EQUIPMENT

"STEELITE" ARMOR-CLAD LIGHTING UNITS

Listed by Underwriters' Laboratories



Narrow beam units are recommended for lighting relatively small areas to a high intensity. Concentrating units are used for lighting high narrow bays. The spread units are recommended for use where light is to be distributed evenly over a wide area. The glass cover is ¼-inch thick and electrically treated having 4 times the strength of regular ¼" plate glass.

Lamp Watts	Beam and Reflecting Surface	No.	List Price Each
750-1500	Narrow Beam, polished	5280	$43.80
750-1500	Concentrating, etched	5281	41.30
750-1500	Spread, etched	5282	41.30

"HEAVY DUTY" VAPOR-TIGHT PENDANT UNITS

Listed by Underwriters' Laboratories



Hoods are two-piece, gasketed cast aluminum, regularly tapped ½-inch; ¾-inch if specified. Glass globes are clear and opal standard. Units with Heat Resisting globes supplied at a $4.40 increase in clear globe medium base price. To order, suffix "HR" to clear globe catalog number. Reflectors are finished in acid resisting porcelain enamel; green outside, white inside.

With Dome Reflector

Lamp Watts	With Clear Globe No.	With Clear Globe List Price Each	With Opal Globe No.	With Opal Globe List Price Each
100	6500	$ 8.50	6500-OP	$11.30
150	6501	9.30	6501-OP	12.10
200	6502	11.45	6502-OP	14.25
300-500	6503	14.15	6503-OP	18.20

TYPE II-G DUST-TIGHT PENDANT LIGHTING UNITS

Listed by Underwriters' Laboratories



Hoods are two-piece cast aluminum with threaded removable top cap for easy wiring. Aluminum hoods are finished in aluminum paint. Reflectors are acid resisting porcelain enamel steel; green outside, white inside. Sockets are Underwriters' listed keyless, shock-absorbing, medium base. Units are supplied with a choice of either clear, plain or clear, heat-resisting glass globes.

With Dome Reflector

Lamp Watts	Type of Globe	No.	List Price Each
100	Plain Clear	8500	$14.60
100	Heat Resis.	8500 HR	19.00
150	Plain Clear	8505	20.95
150	Heat Resis.	8505 HR	27.00

TYPE II-G DUST-TIGHT AND MOISTURE-PROOF UNITS

Listed by Underwriters' Laboratories



These units satisfy all Underwriters' requirements for installation in class II, Groups E, F, and G and Class III hazardous locations. These units are also weatherproof and moisture proof and are suitable for installation in exposed or damp places. Units have copper casing. A glass globe threads into the copper casing and seats against an impregnated asbestos gasket. Finish is natural copper.

Units with Wire Globe Guard

25-60-75	Clear	675	$ 5.50
100, 150	Clear	658	8.40
100, 150	Heat Resis.	658-HR	12.80
100, 150	Opal	658-OP	11.20

CEILING TYPE LIGHTING "VAPOLETS"

Listed by Underwriters' Laboratories



Ceiling type units are available in two standard tapping arrangements, "C" tapping arrangement includes one pipe plug; units with "X" tapping arrangement include two pipe plugs for installations requiring "L" angle or "T" three way tapping arrangements.

Description	Lamp Watts	Size Tap'd	No.	List Price Each
With Globe	15-75	½"	7117-C	$8.10
and Guard	15-75	¾"	7127-C	8.20
With Globe	15-75	½"	7917-C	5.40
Only	15-75	¾"	7927-C	5.50

"HEAVY DUTY" VAPOR-TIGHT CEILING UNITS

Listed by Underwriters' Laboratories



Hoods are two piece cast aluminum with asbestos gasket between globe and hood to assure tight lamp enclosure. Sockets are Underwriters' listed, keyless, rigid, medium base. Clear or opal globes are standard; for units with heat resisting globes add $4.40 to clear globe medium base unit price.

With Dome Reflector

Lamp Watts	With Clear Globe No.	With Clear Globe List Price Each	With Opal Globe No.	With Opal Globe List Price Each
100	6550	$ 9.05	6550-OP	$11.85
150	6551	9.85	6551-OP	12.65
200	6552	12.00	6552-OP	14.80
300-500	6553	14.70	6553-OP	18.75

TYPE II-G DUST-TIGHT CEILING LIGHTING UNITS

Listed by Underwriters' Laboratories



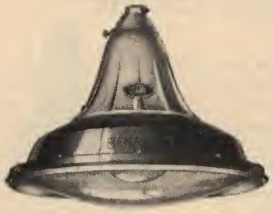
Cast aluminum ceiling hoods have removable flanged tops for easy wiring. Three outlet plugs are included. Aluminum hoods are finished in aluminum paint, boxes finished in aluminum paint over cadmium plate. Reflectors are acid resisting porcelain enamel steel; green outside, white inside. Reflector neck is copper with a nickel finish.

With Dome Reflector

Lamp Watts	Type of Globe	No.	List Price Each
100	Plain Clear	8570	$19.20
100	Heat Resis.	8570-HR	23.60
150	Plain Clear	8575	25.55
150	Heat Resis.	8575-HR	31.60

VAPOR-SEAL LIGHTING UNITS

Listed by Underwriters' Laboratories



These units are listed by Underwriters' Laboratories for Class II, Groups E, F, and G and Class III hazardous locations. These units provide the important factor of completely sealing the reflector opening with a gasketed heat resisting glass cover. The reflector has acid resisting porcelain enamel and is locked in place by a stainless steel set screw.

Lamp Watts	Diameter In.	Height In.	No.	List Price Each
150	14	10⅛	5651	$30.00
200	17¼	12	5652	34.95
300, 500	17¼	13½	5653	44.55

BENJAMIN LIGHTING EQUIPMENT

"ELLIPTO-LITE PLAY-AREA" FLOODLIGHTS



The unique hood design of these floodlights makes it possible to detach the reflector and remove it to the ground for easy cleaning without disturbing wiring or position of the mounting bracket. Inner reflectors are processed oxidized aluminum. Reflectors are porcelain enamel steel, elliptical shape. Hoods, brackets and reflector necks are cast aluminum or cast iron; electroplated and finished in aluminum paint.

With Pendant Hoods—Tapped ¾" Standard

Lamp Size Watts	With Aluminum Inner Reflector No.	List Pr. Ea.	Less Aluminum Inner Reflector No.	List Pr. Ea.
300, 500	5770	$23.05	5772	$18.95
750, 1500	5970	24.40	5973	20.30

BENJAMIN "VARIETY-LITE"



The one-piece, lifetime porcelain enameled steel reflector is not affected by heat or dampness. A "snap-in" reflector utilizes light usually lost in the neck of outer reflector. Unit is supplied wired, with six feet of rubber service cord and rubber plug. Steel bracket and cast iron reflector cap-finished in lacquer over electroplating. Bracket band is electroplated steel.

No.	Lamp Watts	Description	List Price Each
1934	75, 100	8-inch Diameter Reflector	$6.30
1936	200, 300	10-inch Diameter Reflector	6.80
2103	.....	Porcelain Socket Only	.85

"ALZO-LITE" LONG-RANGE FLOODLIGHT

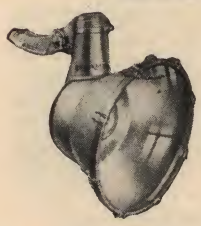


The section directly behind the lamp is polished while the section in front of the lamp is etched. Outside is aluminum paint over Alzak. Cover is hinged at top and fastened to reflector by eight spring clamps. Separable hood construction allows removal of reflector for cleaning or easier installation. Fittings not aluminum are electroplated and finished in aluminum paint.

Fits 4¼-Inch Standard Cross Arm and Any Flat Surface

No.	Lamp Watts	Description	List Price Each
N-6196	750-1500	Less Reflector	$69.10
N-6191	750-1500	With Reflector	71.80

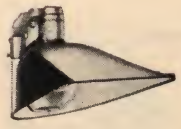
"ALZO-LITE" WIDE-SPREAD FLOODLIGHTS



A weatherproof Alzak Aluminum floodlight having a 90° beam spread, for illuminating baseball, softball, football fields and similar areas. Waterproof cover is hinged at top and attached by a series of eight spring clamps around the rim. Separable hood construction makes possible removal of reflector for cleaning or easier installation.

N-6146	750-1500	Fits 4¼" standard cross arms and all flat surfaces	$59.60
N-6147	750-1500	Clamps around 1" to 2" iron pipe	60.95

BENJAMIN "DUO-SERVICE" FLOODLIGHTS



Combining a large porcelain enamel steel reflector with a beam-producing inner projector. The porcelain enameled steel reflector, of the Benjamin "Duo-Service" Floodlight illuminates a long area to the front and sides of the unit. The floodlight is designed to offer the greatest resistance to weathering and atmospheric changes. The hood and bracket are rugged aluminum castings while the porcelain enamel finish of the diffusing reflector resists deterioration from smoke, dirt and unfavorable atmospheric conditions. Simple vertical and horizontal adjustments facilitate positioning the reflector in relation to the general area to be lighted and afford a means of directing the floodlighting beam on building. All fittings not aluminum are electroplated and finished in baked aluminum paint.

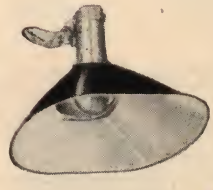
Closed Wiring, Slip Fitter Base—Floodlights

Brackets Fit 1½" Iron Pipe				Brackets Fit 2" Iron Pipe		
No.	Lamp Watts	Description	List Price Each	No.	Description	List Price Each
5763	750-1500	Floodlight Only	$48.75	5763-A	Floodlight Only	$48.75
27563	750-1500	With "Saflox" Attach. ..	67.75	27563-A	With "Saflox" Attach. ...	67.75

Open Wiring, Cross Arm Bracket—Floodlights

No.	Lamp Watts	Description	List Price Each
5933	750-1500	With Cross Arm Bracket.....	$46.05
5943	750-1500	Cross Arm Bracket With Pipe Clamp...	47.40

BENJAMIN "SENIOR PLAY-AREA" FLOODLIGHTS



Consisting of a large porcelain enamel open-type reflector with an aluminum inner reflector. Both the porcelain enamel and processed aluminum reflectors offer unusual resistance to weather and atmospheric conditions. This floodlight provides uniform and strong illumination on the ground in front and on the sides of the unit. Directs part of the light into the upper areas permitting players and spectators to follow an object in flight, such as a baseball or football. Outer reflector is special diffusing white porcelain enamel while the inner reflector is oxidized processed aluminum. The standard reflector color is green. Special colors are available upon application. All fittings not aluminum.

Floodlights with Cross Arm Bracket

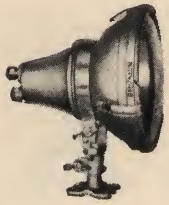
No.	Lamp Watts	Description	List Price
5751	750-1500	With Inner Reflector, Less Pipe Clamp...	$39.30
5756	750-1500	Less Inner Reflector, Less Pipe Clamp....	35.20
5754	750-1500	With Inner Reflector, With Pipe Clamp...	40.65
5755	750-1500	Less Inner Reflector, With Pipe Clamp...	36.55

Floodlights with Slip Fitter Bracket

No.	Lamp Watts	Description	List Price
5752	750-1500	Fits 1½" I.P. mast; With Inner Reflector	$42.00
5753	750-1500	Fits 1½" I.P. mast; Less Inner Reflector.	37.90
5752-A	750-1500	Fits 2" I.P. mast; With Inner Reflector..	42.00
5752-A	750-1500	Fits 2" I.P. mast; Less Inner Reflector...	37.90

BENJAMIN LIGHTING EQUIPMENT

TYPE RD FLOODLIGHTING PROJECTORS



These floodlights feature a universal reflector of advanced design. The housing is seamless, one-piece aluminum. Beam spreads are controllable with each type. The unit has weatherproof wire entrances and the reflector is cushioned against jars and shocks. Cast iron base and yokes are finished to resist corrosion; entire projector sprayed aluminum. Reflectors are silver mirrored, crystal glass; reflector is spring-floated in projector housing.

RD-11 200 and 250 Watt			RD-14 300 and 500 Watt		
No.	Glass Cover	List Price Each	No.	Glass Cover	List Price Each
5825	Plain	$51.45	5850	Plain	$81.25
5826	Stippled	51.45	5851	Stippled	81.25
5827	Ribbed	51.45	5852	Ribbed	81.25

BENJAMIN "COLUMN-LITE"



Reflector and canopy are seamless, porcelain enameled steel. The removable canopy slips over a ½-inch close nipple and is secured by a locknut. Bracket yoke is cast iron and slips over end of unthreaded 2-inch iron pipe mast and is locked in place by two rugged set screws. Outside finish is either green or red, standard; special colors on application. Inside of reflector is special diffusing white porcelain enamel. Bracket yoke and cap nut are electroplated.

With ½" I.P. Size Ornamental Cap Nut

No.	Lamp Watts	Exterior Reflector Finish	List Price Each
N-5680-G	150, 200, 300	Green	$20.30
N-5680-R	150, 200, 300	Red	20.30
N-5681-G	300, 500	Green	20.30
N-5681-R	300, 500	Red	20.30

Listed by Underwriters' Laboratories.



Concentrating Beam Fits ½" Iron Pipe Standard

BENJAMIN "UTILITY" FLOODLIGHTS

The interior surface of the sheet aluminum housing of this unit forms a highly efficient reflector. Three styles of cover glasses are available: clear, stippled and ribbed. The several combinations afforded by the use of the different reflectors and cover glasses, plus the beam focusing feature, assure a unit of suitable beam spread to meet a variety of floodlighting problems. Reflecting surfaces are sealed against dust and moisture by the heat resisting cover glass which seats against an impregnated asbestos gasket.

150-200 Watt			300-500 Watt			750-1000 Watt		
No.	Description	List Price Each	No.	Description	List Price Each	No.	Description	List Price Each
6014	Plain Cover	$19.60	P-6023-K	Plain Glass Cover	$43.35	P-6033-K	Plain Glass Cover	$55.50
6016	Stippled Cover	19.60	S-6023-K	Stippled Glass Cover	43.35	S-6033-K	Stippled Glass Cover	55.50
R-6014	Ribbed Cover	19.60	R-6023-K	Ribbed Glass Cover	43.35	R-6033-K	Ribbed Glass Cover	55.50



BENJAMIN "CLUSTER-ETTE" (Medium Base)

The "Cluster-ette" assemblies are extremely useful in furnishing supplementary or "punch" lighting on special areas—especially where the lighting source must be mounted close to the area to be illuminated. Bracket and housing of these units are cast aluminum. Brackets and housing are adjustable and held together by a steel bolt and brass nut. Box and cover are cast aluminum and cover is attached to box by a brass screw. Slip-fitter base is cast iron. Each housing is wired with a pair of leads sufficiently long to allow easy wiring to line wires inside the box.

Complete Medium Base "Cluster-ette" with "Column-Lite" 150-300 Watt

Reflector Color	2-Unit "Cluster-ette" No.	2-Unit List Price Each	3-Unit "Cluster-ette" No.	3-Unit List Price Each	4-Unit "Cluster-ette" No.	4-Unit List Price Each	5-Unit "Cluster-ette" No.	5-Unit List Price Each
Green	N-15552-G	$30.80	N-15553-G	$33.70	N-15554-G	$36.60	N-15555-G	$39.50
Red	N-15552-R	30.80	N-15553-R	33.70	N-15554-R	36.60	N-15555-R	39.50

100 WATT "JUNIOR" FLOODLIGHT



Has weatherproof porcelain enamel steel reflector. The reflecting surface is sealed against entrance of moisture or dirt by a clear cover glass which seats against an impregnated gasket. All this type floodlight regardless of mounting can be rotated through 360 degrees in the horizontal plane and a wide range of positions in the vertical plane.

No.	Description	List Price Each
5810	With pedestal base and spike, clear glass cover	$8.80
5910	With pipe bracket, clear glass cover.....	8.80
5801-CL	Plain, clear glass cover only.....	2.30
1462	Medium screw base receptacle only.....	.40

BENJAMIN CANOPY DIFFUSERS

Listed as Vapor Tight by Underwriters' Laboratories



These units have a cast iron junction box hood finished in aluminum paint over electro-plating with an Underwriters' listed, medium base composition receptacle. Opal glass diffusing globe attaches to reflector bead by an aluminum clamping band. These units are especially designed for semi-flush mounting under canopies or eaves of service stations, garages, etc.

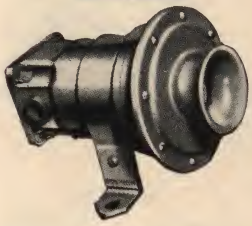
Complete Units

No.	Lamp Watts	Description	List Price Each
5665-V	100-150	½"—One Side	$10.40
5665-C	100-150	½"—Feed Thru	10.55
5665-L	100-150	½"—Right Angle	10.55
5665-T	100-150	½"—Three Sides	10.70
5665-X	100-150	½"—Four Sides	10.85

BENJAMIN LIGHTING EQUIPMENT

BENJAMIN MOTOR DRIVEN HOWLERS

Listed by Underwriters' Laboratories



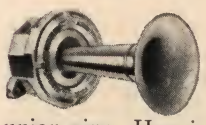
The clear vibrant tone of the Benjamin Motor Driven Howler makes it especially useful in such locations as machine shops, woodworking departments, steel fabricating shops, wherever excessive noise is present. There is no lag or coasting to blur the code with the high torque, series wound motor; it starts and stops instantly with current impulses. It is entirely weatherproof and assembled throughout with rubber gaskets.

With 2-Inch Single Bell Type Projector (A.C. or D.C. Operation)

No.	Voltage Range	List Price Each
8178-115V.	90-125	$61.67
8178-230V.	185-255	61.67
With Double Bell Type Projector (A.C. or D.C. Operation)		
8182-115V.	90-125	$68.42
8182-230V.	185-225	68.42

TYPE SWP WEATHERPROOF HEAVY-DUTY HOWLERS

Listed by Underwriters' Laboratories

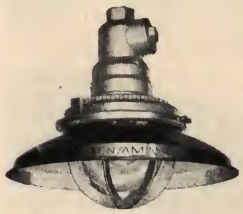


These howlers have powerful vibrating mechanisms with efficient armatures and coils and large diaphragms. The outlet box housing is heavy iron casting to which the steel projector assembly is attached by the cast aluminum threaded union ring. Housings are regularly tapped on one side only for ½-inch conduit entrance but can be tapped for ¾-inch conduit.

7½-Inch Single Bell Type Projector

Alternating Current (60 cycles)			Direct Current		
No.	Voltage	List Price Each	No.	Voltage	List Price Each
8546-12V.	12V.	$20.65	8526-6V.	6V.	$23.95
8546-24V.	24V.	20.65	8526-110V.	110V.	23.95
8546-110V.	110V.	20.65	8526-220V.	220V.	23.95
8546-220V.	220V.	20.65	8526-250V.	250V.	23.95

EXPLOSION-PROOF PENDANT LIGHTING UNITS



Hoods are pendant type, cast iron, finished in aluminum paint applied over cadmium plate. Socket is one piece porcelain with wiring terminals conveniently located on side. Socket base has permanently formed-on metal gasket. Reflectors are porcelain enameled steel, reflecting white inside, green outside and includes an aluminum retaining band with screw clamp, for attachment to the body.

Units with Dome Reflector (With Guard)

Lamp Watts	Tapped ½-Inch No.	Tapped ½-Inch List Pr. Ea.	Tapped ¾-Inch No.	Tapped ¾-Inch List Pr. Ea.
100	7611	$28.15	7511	$28.25
150	7612	28.80	7512	28.90
200-300	7513	40.20	7513	40.30

EXPLOSION-PROOF ANGLE BRACKET UNITS

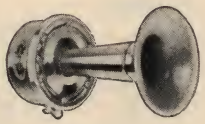


Bracket is two-piece cast iron, consisting of an angle bracket and an outlet box. The bracket houses the socket and has an inspection plug. The bracket is fastened to the box by four screws. The overall width of the box, including hubs, is 6¼-inches. Box depth is 1⅞-inches. Finish is aluminum paint over cadmium plate.

Units with Dome Reflector (With Guard)

100	7611BX	$36.15	7511BX	$36.35
150	7612BX	36.80	7512BX	37.00
200-300	7613BX	48.20	7513BX	48.40

TYPE SNP NON-WEATHERPROOF FACTORY HOWLERS



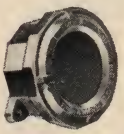
These signals are designed to stand up under severe service in indoor locations. Signals of this line can be easily serviced as the entire projector assembly, including the horn mechanism can be removed without touching the wire. These howlers are of steel; finished in baked light gray enamel.

With 7½-Inch Signal Bell Type Projector

Alternating Current			Direct Current		
No.	Voltage	List Price Each	No.	Voltage	List Price Each
8755-12V.	12V.	$17.15	8726-6V.	6V.	$20.45
8755-24V.	24V.	17.15	8726-110V.	110V.	20.45
8755-110V.	110V.	17.15	8726-220V.	220V.	20.45
8755-220V.	220V.	17.15	8726-250V.	250V.	20.45

BENJAMIN INDUSTRIAL BUZZERS

Listed by Underwriters' Laboratories



These Benjamin Buzzers have a distinctive tone and are recommended for use on calling and warning systems where the volume of competitive noise is not excessive. The Heavy Duty Mine Buzzer has a heavy cast iron housing and steel cover, held in place by an aluminum threaded union ring. Housings are tapped ½-inch, one side only.

Type SWP Heavy Duty Mine Buzzer—Tapped ½-Inch

Alternating Current (60 cycles)			Direct Current		
8699-12V.	12V.	$17.15	8698-6V.	6V.	$20.45
8699-24V.	24V.	17.15	8698-110V.	110V.	20.45
8699-110V.	110V.	17.15	8698-220V.	220V.	20.45
8699-220V.	220V.	17.15	8698-250V.	250V.	20.45

EXPLOSION-PROOF CEILING LIGHTING UNITS



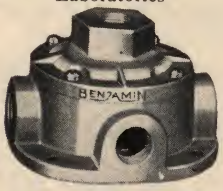
Hoods consist of two-piece cast iron construction; consisting of an explosion-proof outlet box to which is attached the main body of the hood containing the socket. Contact surfaces between box and hood are specially machined, providing a flameproof lap joint, $\frac{7}{16}$-inches in width. Finish: aluminum paint, over cadmium plate.

Units with Dome Reflector (With Guard)

Lamp Watts	Tapped ½-Inch No.	Tapped ½-Inch List Pr. Ea.	Tapped ¾-Inch No.	Tapped ¾-Inch List Pr. Ea.
100	7611CX	$33.60	7511CX	$33.80
150	7612CX	34.25	7512CX	34.45
200-300	7613CX	45.65	7513CX	45.85

EXPLOSION-PROOF BOXES WITH COVERS

Listed by Underwriters' Laboratories



This line of explosion-proof boxes and covers is designed for use with explosion-proof and dust-tight lighting units in hazardous atmospheric locations. Boxes with hubbed covers provide convenient method of suspending pendant units. Boxes and covers are cast iron; finished in aluminum paint over cadmium plate.

Type EPS—With ½-Inch Hubbed Cover			Type EPS—With ¾-Inch Hubbed Cover		
No.	Size Tapping	List Price Each	No.	Size Tapping	List Price Each
7350X	½	$6.80	7351X	½	$6.85
7355X	¾	7.00	7356X	¾	7.05
7360X	1	7.20	7361X	1	7.25

BENJAMIN LIGHTING EQUIPMENT

TYPE E TWIN-LAMP "LITE-LINE 40" LIGHTING UNITS





Channels

Line Voltage	Channel Length	Starter Type	No.	List Price Each
110-125V.	8' 8⅜"	FS-40	18854-W	$48.00
110-125V.	8' 8⅜"	FS-4	18854	44.77
110-125V.	8' 8⅜"	Instant Start	18954	59.05
110-125V.	4' 2⅜"	FS-40	18454-W	23.37
110-125V.	4' 2⅜"	FS-4	18454	21.75
110-125V.	4' 2⅜"	Instant Start	18554	28.89

Channel Coupling

No.	List Price Each
9601	$1.32

Reflector	Without Apertures No.	Without Apertures List Price Ea.	With Apertures No.	With Apertures List Price Ea.
Closed-end	8462	$11.97	8466	$12.55
Open-end	8453	8.75	8444	9.32

End Cap

No.	List Price Each
18425	$0.46

"MAGNA-FLO 96" INDIVIDUAL UNITS



Housing for these units are fabricated of 20 gauge steel, finished inside and out with durable baked gray enamel over a phosphorizing treatment. Reflectors are formed of 20 gauge steel completely covered with "lifetime" porcelain enamel—outer surfaces are finished gray; reflecting surfaces, special diffusing white. Lamp holder bodies for slimline lamps are constructed of metal, bearing Underwriters' Laboratories approval. This type lampholder permits quick easy replacement of lamps.

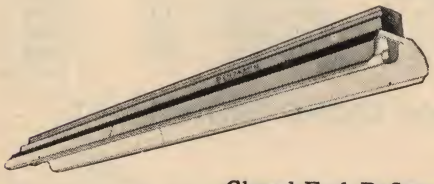
Closed-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin-lamp	96202	$78.64
110-125V.	3	1 Twin plus 1 Sg. Lamp	96203	104.38

Open-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin-lamp	96102	$67.18
110-125V.	3	1 Twin plus 1 Sg. Lamp	96103	96.92

"MAGNA-FLO 72" INDIVIDUAL UNITS



Reflectors for 96-inch and 72-inch lamp units are made in two sections for easier handling. The two sections overlap and are rigidly connected by a positive aligning clip that slides quickly into place over the reflector beads. Chain hanger brackets and a variety of knockouts are provided in each housing. All two-lamp units are provided with one high power factor, instant start, slimline ballast. Three lamp units have one twin and one single lamp ballast.

Closed-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin lamp	72202	$64.68
110-125V.	3	1 Twin plus 1 Sg. Lamp	72203	89.54

Open-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin lamp	72102	$58.98
110-125V.	3	1 Twin plus 1 Sg. Lamp	72122	59.50

"MAGNA-FLO 48" INDIVIDUAL UNITS



Reflectors for 48-inch lamps are one-piece. They are formed of 20 gauge steel completely covered with "lifetime" porcelain enamel; gray outside, reflecting white inside. Lamp holder bodies for slimline fluorescent lamps are constructed of metal, iridited and finished in white baked paint enamel. The housings are formed of 20 gauge steel, finished inside and out with durable baked gray enamel. Metal to metal bond is provided between reflectors and housings for grounding.

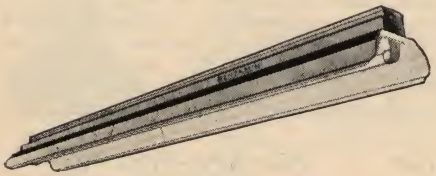
Closed-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin-lamp	48202	$44.92
110-125V.	3	1 Twin plus 1 Sg. Lamp	48222	45.80

Open-End Reflectors

Line Voltage	No. of Lamps	Ballast Equipment	No.	List Price Each
110-125V.	2	1 Twin-lamp	48102	$39.60
110-125V.	3	1 Twin plus 1 Sg. Lamp	48103	61.60

"MAGNA-FLO" CONTINUOUS LINE SYSTEMS





Line Voltage	Channel Length	Ballast Equipment	No.	List Price Each
110-125V.	96⅝"	1 Twin lamp	96502	$51.04
110-125V.	96⅝"	1 Twin plus 1 Single lamp	96503	76.78
110-125V.	72⅝"	1 Twin lamp	72502	44.70
110-125V.	72⅝"	1 Twin plus 1 Single lamp	72503	69.52
110-125V.	48⅝"	1 Twin lamp	48502	31.28
110-125V.	48⅝"	1 Twin plus 1 Single lamp	48503	53.28

Channel Coupling

No.	List Price Each
9601	$1.32

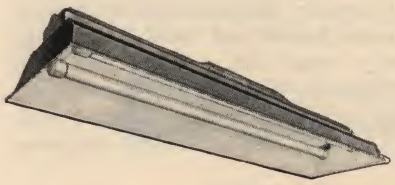
Reflector	Without Apertures No.	Without Apertures List Price Ea.	With Apertures No.	With Apertures List Price Ea.
Closed-end	M-9620	$26.72	M-9622	$27.28
Closed-end	M-7220	19.14	M-7222	20.46
Closed-end	M-4820	12.76	M-4822	13.64

Channel End Cap

No.	List Price Each
18425	$0.46

BENJAMIN LIGHTING EQUIPMENT

"STREAM-FLO 40" UNITS



The Benjamin "Stream-Flo 40" fluorescent units are ruggedly constructed for long dependable service with housings of heavy gauge steel. Reflectors are finished with Benjamin "lifetime" porcelain enamel. Ballast and exclusive Benjamin safety type lampholders are mounted in the one-piece streamlined housing. The design of the reflector, high reflection factor (exceeding 82%) of the porcelain enamel and proper positioning of lamps combine to give these units an efficiency of 80% or more on twin lamp units, and 76% or more for triple lamp units.

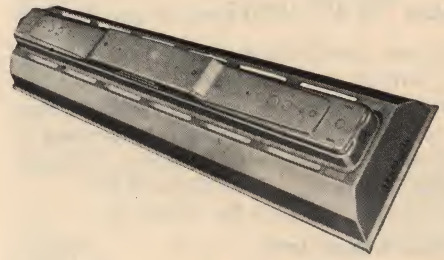
Twin Lamp Units

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin Lamp Ballast	40662-W	$35.45
220-250V.	1 Twin Lamp Ballast	40682-W	35.45

Triple Lamp Units

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin plus 1 Single Lamp Bal.	40663-W	$46.62
220-250V.	1 Twin plus 1 Single Lamp Bal.	40683-W	46.62

"STREAM-FLO 40" DIFFUSER UNITS



Reflectors are made of 20 gauge steel, completely covered with Benjamin "lifetime" porcelain enamel—outer surfaces are finished in gray, inner surfaces in reflecting white. Twelve elongated apertures in two rows of six each pierce the top of the reflector. These twelve apertures direct upward of 6.7% of the total light output of the twin-lamp unit and 5.8% of the triple-lamp unit to soften contrast, increase eye comfort, and make the room more cheerful.

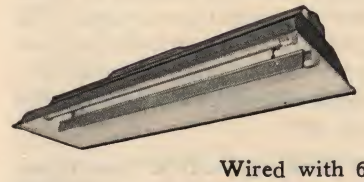
Twin Lamp Units

110-125V.	1 Twin Lamp Ballast	44662	$34.41
220-250V.	1 Twin Lamp Ballast	44682	34.41

Triple Lamp Units

110-125V.	1 Twin plus 1 Single Lamp Bal.	44663	$44.77
220-250V.	1 Twin plus 1 Single Lamp Bal.	44683	44.77

RLM "SHIELD-FLO 40" UNITS



This line of highly efficient fluorescent lighting units is designed for use in installations where a greater degree of lamp shielding is desired than is provided by regular "Stream-Flo 40" units. Proper positioning of the lamps and other factors combine to give an efficiency of 70% or more of the output of the two 40-watt fluorescent lamps. With the shield in place a shielding angle of 27° is formed. Reflectors are made of porcelain enameled iron completely covered with "lifetime" porcelain enamel.

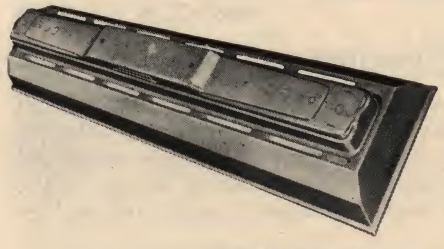
Wired with 6-inch Leads

110-125V.	1 Twin Lamp	41662-W	$38.44
220-250V.	1 Twin Lamp	41682-W	38.44

Wired with 6-foot Cord and Plug Cap

110-125V.	1 Twin Lamp	41662-CW	$40.40
220-250V.	1 Twin Lamp (three-wire)	41682-PW	40.99

"SHIELD-FLO 40" DIFFUSER UNITS



"Shield-Flo 40" Diffuser Units are of great value in planning controlled brightness lighting installations. The twelve apertures (arranged in two rows of six each) in the top of the reflector direct 7.7% of the light output upward to soften contrast and increase eye comfort. Porcelain enamel reflectors are made of 20 gauge steel, completely covered with Benjamin "lifetime" porcelain enamel—outer surfaces are finished gray, inner surfaces are reflecting white.

Wired with 6-inch Leads

110-125V.	1 Twin Lamp	45662	$37.40
220-250V.	1 Twin Lamp	45682	37.40

Wired with 6-foot Cord and Plug Cap

110-125V.	1 Twin Lamp	45662-C	$39.36
220-250V.	1 Twin Lamp	45682	39.95

RLM "TWIN AND TRIPLE-FLO 40" UNITS



Ballast and exclusive Benjamin safety type lamp holders are mounted in the one-piece streamlined housing which is drawn from 20 gauge steel. Inner and outer surfaces are finished in gray enamel. Reflectors are made of porcelain enameling iron, completely covered with "lifetime" porcelain enamel—outer surfaces are finished gray, inner surfaces are reflecting white. All ballasts operate the lamps out of phase to minimize cyclic flicker.

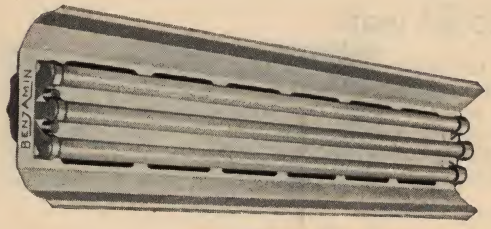
Twin Lamp Units

110-125V.	1 Twin Lamp Ballast	40362-W	$32.23
220-250V.	1 Twin Lamp Ballast	40382-W	32.23

Triple Lamp Units

110-125V.	1 Twin plus 1 Single Lamp Bal.	40163-W	$43.39
220-250V.	1 Twin plus 1 Single Lamp Bal.	40183-W	43.39

BENJAMIN LIGHTING EQUIPMENT



"TWIN AND TRIPLE-FLO 40" DIFFUSER UNITS

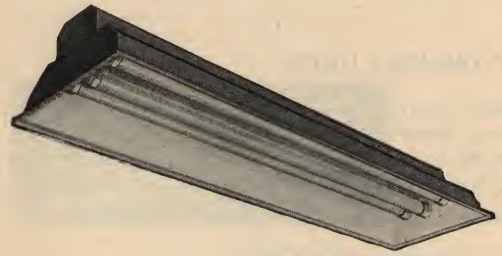
These open-end lighting units have all the excellent lighting characteristics of the conventional "Twin-Flo 40" and "Triple-Flo 40" units for general and local illumination plus the addition of apertures which cut down high brightness contrasts and thus provide better "seeing" conditions in the general illumination of industrial and commercial locations. Reflectors are made of 20 gauge steel, completely covered with "lifetime" porcelain enamel, outer surfaces finished in gray, inner surfaces reflecting white.

Twin Lamp Units

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin Lamp Ballast	44362	$31.19
220-250V.	1 Twin Lamp Ballast	44382	31.19

Triple Lamp Units

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin plus 1 Single Ballast	44163	$41.55
220-250V.	1 Twin plus 1 Single Ballast	44183	41.55



TWO AND THREE LAMP RLM "TX-40" UNITS

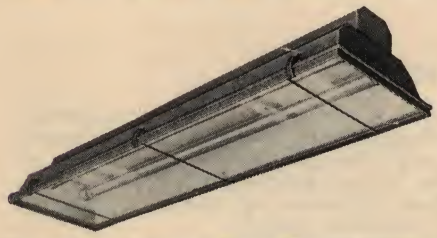
The reflector and housing is one-piece welded steel construction finished in enduring porcelain enamel. The top of the reflector is formed by a porcelain enameled steel plate, which is removed for access to the control equipment by loosening two screws. All ballasts operate the lamps out of phase to minimize cyclic light flicker. Housing is finished in gray porcelain enamel outside; reflecting surfaces are a special diffusing white. All other metal fittings are cadmium plated.

Twin Lamp Units

Line Voltage	Control Equipment	No.	List Price Each
110-125V.	1 Twin Lamp Ballast	49262	$44.89
220-250V.	1 Twin Lamp Ballast	49282	44.89

Triple Lamp Units

Line Voltage	Control Equipment	No.	List Price Each
110-125V.	1 Twin plus 1 Single Ballast	49263	$56.40
220-250V.	1 Twin plus 1 Single Ballast	49283	55.25



TWO AND THREE LAMP TYPE 11G "SEALED-FLO 40" UNITS

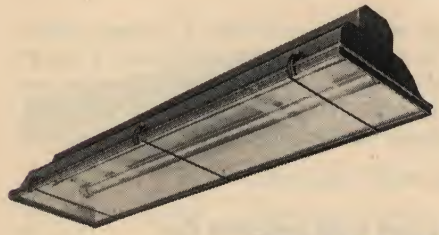
The cadmium plated, steel cover frame is hinged to one side of the housing by three spring bronze hinges which hold the cover, under tension, against the housing. The reflector and housing is one-piece welded steel construction finished in enduring porcelain enamel. Housing is finished in gray porcelain enamel outside; reflecting surfaces are a special diffusing white. Metal to metal bonds ground unit through conduit system.

Twin Lamp Units With—Double Strength Grade A Glass Cover

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin Lamp Ballast	49462-CLW	$75.28
220-250V.	1 Twin Lamp Ballast	49482-CLW	75.28

Triple Lamp Units With—Double Strength Grade A Glass Cover

Line Voltage	Ballast Equipment	No.	List Price Each
110-125V.	1 Twin plus 1 Single Lamp Ballast	49463-CLW	$87.59
220-250V.	1 Twin plus 1 Single Lamp Ballast	49483-CLW	86.44



BENJAMIN "VAPOR-TITE 40" LIGHTING UNITS

This unit has a sealed, one-piece porcelain enameled housing; this provides a long-lasting, easily maintained, vapor-tight enclosure for ballasts, wiring and lamps. Threaded, suspension flanges provide vapor-tight joint between conduit stems and housing. Wiring and control equipment is attached to the inside of the top of the housing and covered by a porcelain enameled steel plate which is easily removed by loosening two screws.

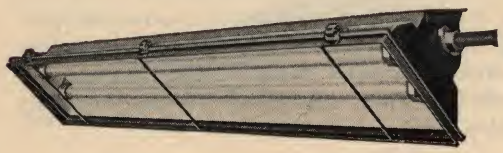
Twin Lamp Units

Line Voltage	2 Strength Grade A Cl. Gl. No.	List Pr. Ea.	Temp. Plate Clear Glass No.	List Pr. Ea.
110-125V.	49562-CLW	$70.67	49562-TPW	$86.44
220-250V.	49582-CLW	70.67	49582-TPW	86.44

Triple Lamp Units

Line Voltage	2 Strength Grade A Cl. Gl. No.	List Pr. Ea.	Temp. Plate Clear Glass No.	List Pr. Ea.
110-125V.	49563-CLW	$82.99	49563-TPW	$98.76
220-250V.	49583-CLW	81.84	49583-TPW	97.60

"ANGLE VAPOR-TITE 40" LIGHTING UNITS



This new enclosed lighting unit is specially designed to provide excellent illumination on vertical surfaces such as assembly lines and conveyor lines. It is also ideal for lighting of long narrow rooms where lighting units must be mounted along the sides. Its sealed interior keeps the unit operating at peak efficiency even though it is used in damp locations or in atmospheres containing large amounts of non-combustible dusts. Units are wired and have 6-inch leads. When fastening this unit to wall or ceiling surfaces, allow at least 2½ inches between hand-operated, cover clamps and surface.

Voltage (60 cycle)	No. of Lamps	Description	Net. Wgt. Lbs. Ea.	No.	List Price Each
110-125V.	2	Unit with standard (FS-4) starters	37¼	49502-CL	$65.42
110-125V.	2	Unit with non-blinking (FS-40) starters	37¼	49502-CLW	67.28

WIREMOLD FLUORESCENT UNITS

Wired and Assembled with Lamp Holders, Ballast and Starter—White Finish

SEMI-DIRECT (1-Lamp) High Power Factor
110-125V. 60 Cycle A.C. (Lamps Not Included)



No.	FOR LAMPS No.	Size	Wgt. Lbs.	List Price Each
25H12	1	24″-20W	9	**$23.90**
25H13	1	36″-30W	12½	**30.00**
25H14	1	48″-40W	14½	**33.40**
***25L14**	1	48″-40W	13¾	**28.80**

*Low Power Factor.

SEMI-DIRECT (2 Lamps) High Power Factor
110-125 V. 60 Cycle A.C. (Lamps Not Included)

25H24	2	48″-40W	22½	**$56.40**
***25H24X**	2	48″-40W	22½	**54.00**

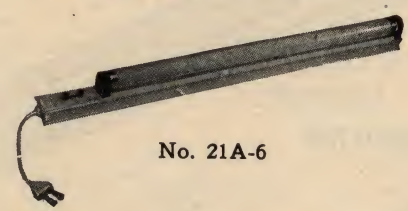
*Extension unit. Similar to 24H24 except that it is furnished with a No. 3001A Rigid Coupling, two No. 25S00 Center Castings, two No. 25RO47 Translucent Shields, and 6″ conductor leads coming out of each end.

No. 21AR UNITS—Showcase Units—15-Watt T-8 Lamps Not Included
Pearl Gray Finish—Reflecting Surface

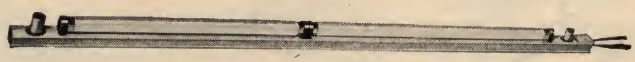


No.	Lgth.	Mtg. Clips	St'tr.	Leads	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Price Each
21AR-10	21¼″	2	FS-2	3″	1	10	28½	**$12.10**
21AR-11	41¼″	2	FS-2	3″	1	10	56½	**24.20**
21AR-13	61¼″	3	FS-2	3″	1	3	26¼	**36.20**
21AR-14	81¼″	3	FS-2	3″	1	3	35	**49.90**
21AR-15	101¼″	4	FS-2	3″	1	3	42¾	**59.60**

21A SERIES—White Finish, 15-Watt T-B Lamp
(Lamps Not Included)



No. 21A-6

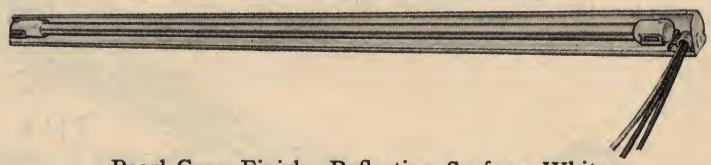


No. 21A-11

No.	Lgth.	Mtg. Clips	St'tr.	Leads	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Price Each
21A-6*	21″	2		6′ Cord	1	10	25½	**$9.40**
21A-9	20″	2	FS-2	6′ Cord	1	10	25	**9.80**
21A-10	21¼″	2	FS-2	3″ Leads	1	10	24¼	**9.60**
21A-11	41¼″	2	FS-2	3″ Leads	1	10	45¾	**19.70**
21A-13	61¼″	3	FS-2	3″ Leads	1	5	35½	**29.30**
21A-14	81¼″	3	FS-2	3″ Leads	1	3	28½	**39.50**
21A-15	101¼″	4	FS-2	3″ Leads	1	3	34	**48.80**

*No. 21A-6 combination push-button switch and starter.

TYPE 41SW SLIMLINE SHOWCASE UNIT
(Ballast and Lamps Not Included)



Pearl Gray Finish—Reflecting Surface, White

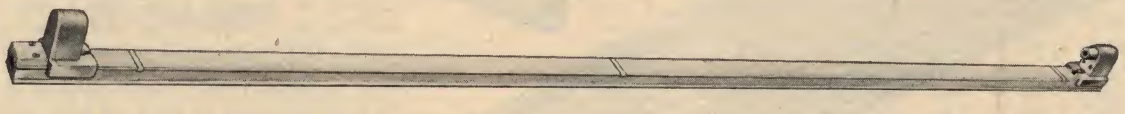
Units consist of one-piece base (with continuous reflector) and cover section to take lamp for which unit is designed. Equipped with lampholders and wired with No. 18, 600 volt 75° Type T white and red conductors with five-foot leads extending from one end. Ballast box for housing 200MA type ballast included.

No.	Size	Overall Length	With Ballast Box No.	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Price Each
41SW44-1	42T6	43½″	41K01	1	10	25	**$16.50**
41SW66-1	64T6	65½″	41K01	1	10	36	**17.60**
41SW86-2	42T6	85½″	41K01	1	5	23	**25.90**
41SW108-2	42T6; 64T6	107½″	41K03	1	5	30	**28.60**
41SW130-2	64T6	129½″	41K02	1	5	35	**33.00**

Ballast Box Dimensions:
41K01 6″x12″x3″
41K02 6″x16″x3″ } Black enamel finish.
41K03 8″x12″x3″

Prices of ballast boxes upon application.

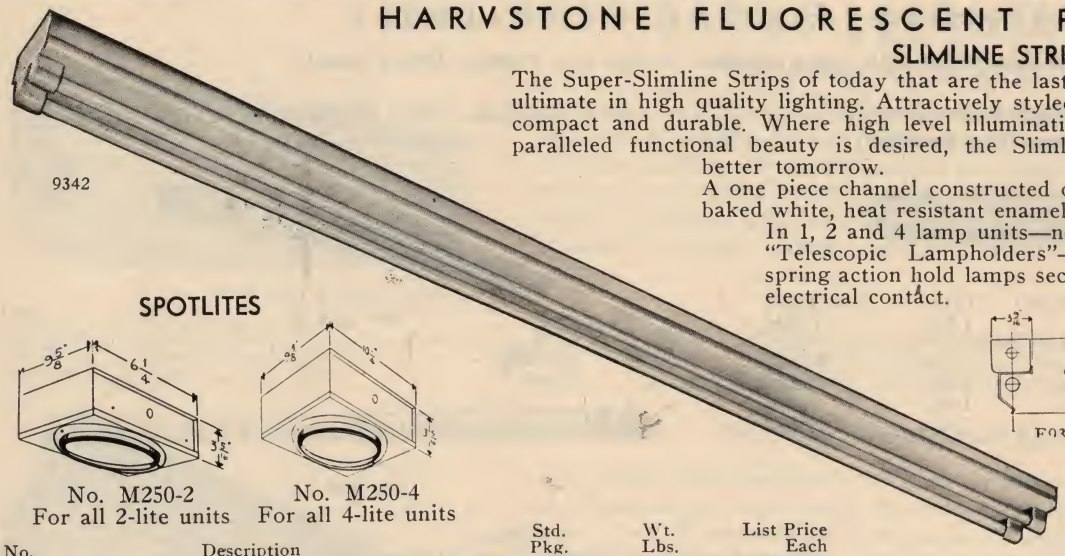
No. 21SW SLIMLINE UNITS—White Finish, Wired and Assembled with Lampholders (Ballast and Lamp Not Included)



No.	Overall Length	—FOR LAMPS— No.	Size	Mtg. Clips	End Conn.	Cpg. 2101A	Blank End Fit. 2110B	Unit Pkg.	Std. Pkg.	Wgt. Lbs.	List Price Each
21SW42	43¼″	1	42T6	2	1		1	1	6	18	**$8.50**
21SW42X	42″	1	42T6	2		1		1	6	16	**8.00**
21SW48	49¼″	1	48T12	2	1		1	1	6	12	**10.10**
21SW48X	48″	1	48T12	2		1		1	6	11½	**9.80**
21SW64	65¼″	1	64T6	2	1		1	1	6	25	**9.80**
21SW64X	64″	1	64T6	2		1		1	6	24	**9.00**
21SW72	73¼″	1	72T8 or 72T12	3	1		1	1	6	32	**10.90**
21SW72X	72″	1	72T8 or 72T12	3		1	1	1	6	32	**10.20**
21SW96	97¼″	1	96T8 or 96T12	3	1			1	6	44	**12.40**
21SW96X	96″	1	96T8 or 96T12	3		1	1	1	6	42	**11.70**

HARVSTONE FLUORESCENT FIXTURES

SLIMLINE STRIP


9342

The Super-Slimline Strips of today that are the last word in illuminating efficiency. The ultimate in high quality lighting. Attractively styled with smooth graceful lines, ideally compact and durable. Where high level illumination, peak lighting efficiency and unparalleled functional beauty is desired, the Slimline Strip of today will serve even better tomorrow.

A one piece channel constructed of heavy 20 gauge steel finished with baked white, heat resistant enamel.

In 1, 2 and 4 lamp units—no starter—just switch to light.

"Telescopic Lampholders"—lamps cannot fall out. Powerful spring action hold lamps securely. Assures positive "flickerproof" electrical contact.

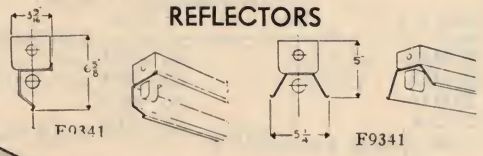
SPOTLITES

No. M250-2
For all 2-lite units

No. M250-4
For all 4-lite units

No.	Description	Std. Pkg.	Wt. Lbs.	List Price Each
M250-2	For 2-Lite Open Units	1	6	**$18.90**
M250-4	For 4-Lite Open Units	1	7	**18.90**

REFLECTORS


E9341 F9341

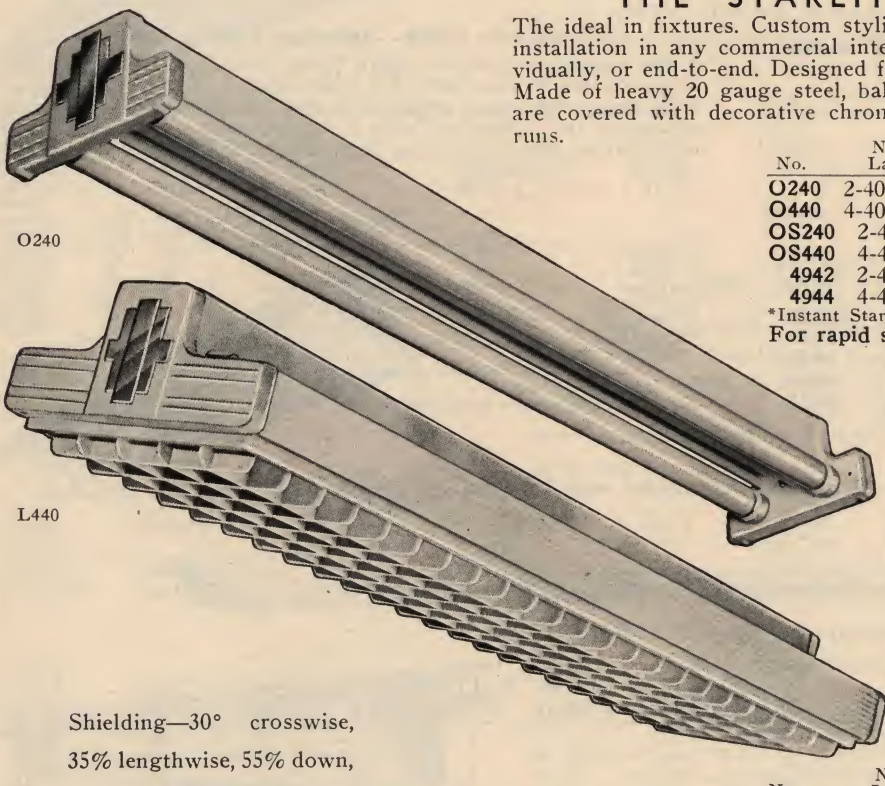
No. E9341—Asymmetrical reflector for 1-lite unit.
List price each **$6.65**

No. F9341—Full symmetric reflector for 1-lite unit.
List price each **6.65**

No.	No. of Lamps	Rating	Lgth.	Overall Wdth.	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
9341	1-96T12	430MA	96″	3½″	4¾″	2	52	**$30.00**
***T9342**	2-96T12	430MA	96″	6 3/16″	4¾″	1	40	**39.90**
9342	2-96T12	430MA	96″	6 3/16″	4¾″	2	67	**31.20**
9344	4-96T12	430MA	96″	10 3/16″	4¾″	1	56	**57.65**
7341	1-72T12	430MA	72″	3½″	4¾″	2	46	**30.00**
***T7342**	2-72T12	430MA	72″	6 3/16″	4¾″	1	34	**$39.90**
7342	2-72T12	430MA	72″	6 3/16″	4¾″	2	61	**31.20**
7344	4-72T12	430MA	72″	10 3/16″	4¾″	1	53	**57.65**
4341	1-48T12	430MA	48″	3½″	4¾″	2	34	**23.35**
4342	2-48T12	430MA	48″	6 3/16″	4¾″	2	40	**24.35**
4344	4-48T12	430MA	48″	10 3/16″	4¾″	1	35	**44.10**

*"T" means a tandem unit. Two 8-foot, one with a ballast and the others without.
200 and 300MA price on application.

THE STARLITER—INSTANT STARTER


O240

L440

The ideal in fixtures. Custom styling with bare-lamp economy. Beautifully styled, easy installation in any commercial interior for any type of mounting—flush, pendant, individually, or end-to-end. Designed for the utmost in beauty and economical maintenance. Made of heavy 20 gauge steel, baked with E.T.L. approved white enamel. White ends are covered with decorative chrome emblem which conceals knockouts for continuous runs.

No.	No. of Lamps	Rating	Lgth.	Overall Wdth.	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
O240	2-40W	40W	49 3/16″	8¼″	4⅞″	1	17	**$18.10**
O440	4-40W.	40W	49 3/16″	12½″	4⅞″	1	23	**27.80**
OS240	2-40WIS*	40W	49 3/16″	8¼″	4⅞″	1	21	**23.20**
OS440	4-40WIS*	40W	49 3/16″	12½″	4⅞″	1	30	**38.75**
4942	2-48T12	430MA	49 3/16″	8¼″	4⅞″	1	21	**24.90**
4944	4-48T12	430MA	49 3/16″	12½″	4⅞″	1	30	**42.00**

*Instant Start

For rapid start ballast 2/40W, add $3.15 list per ballet.

A distinctive fixture of distinctive design where with a high intensity illumination, it is outstanding for all installations. Channel is made of heavy 20 gauge steel finished with E.T.L. approved baked white enamel. White ends are decorated with chrome emblems. Side panels are non-static, fluted plastic with aluminum guide runners.

Louver is hinged from either side and for ease of maintenance, relamping and cleaning just "pull the lever" and louver will unhinge smoothly. Otherwise, louver is locked securely in place so it cannot fall.

U.L. approved parts used exclusively.

If it is desirable to have an 80% downward and 20% upward light component order butterfly reflectors.

TOP REFLECTORS

2-Lite Unit—List price each **$4.80**
4-Lite Unit—List price each **4.80**

Shielding—30° crosswise, 35% lengthwise, 55% down, 45% up.

No.	No. of Lamps	Rating	Lgth.	Overall Wdth.	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
L240	2-40W	HPF	49 3/16″	8¼″	6⅛″	1	22	**$24.80**
L440	4-40W	HPF	49 3/16″	12½″	6⅛″	1	29	**35.45**
LS240*	2-40WIS	HPF	49 3/16″	8¼″	6⅛″	1	26	**29.75**
LS440*	4-40WIS	HPF	49 3/16″	12½″	6⅛″	1	36	**45.45**
L4942	2-48T12	430MA	49 3/16″	8¼″	6⅛″	1	26	**30.45**
L4944	4-48T12	430MA	49 3/16″	12½″	6⅛″	1	36	**48.75**

*Instant Start

For rapid start ballast 2/40W, add $3.15 list per ballet.

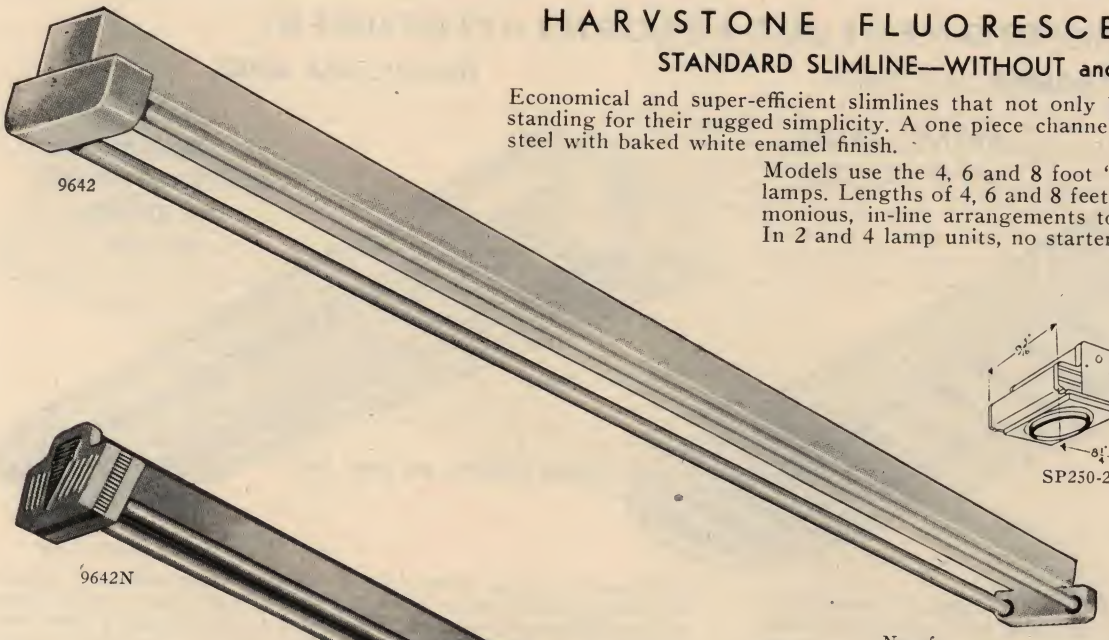
Stem Hangers see page 197

HARVSTONE FLUORESCENT FIXTURES

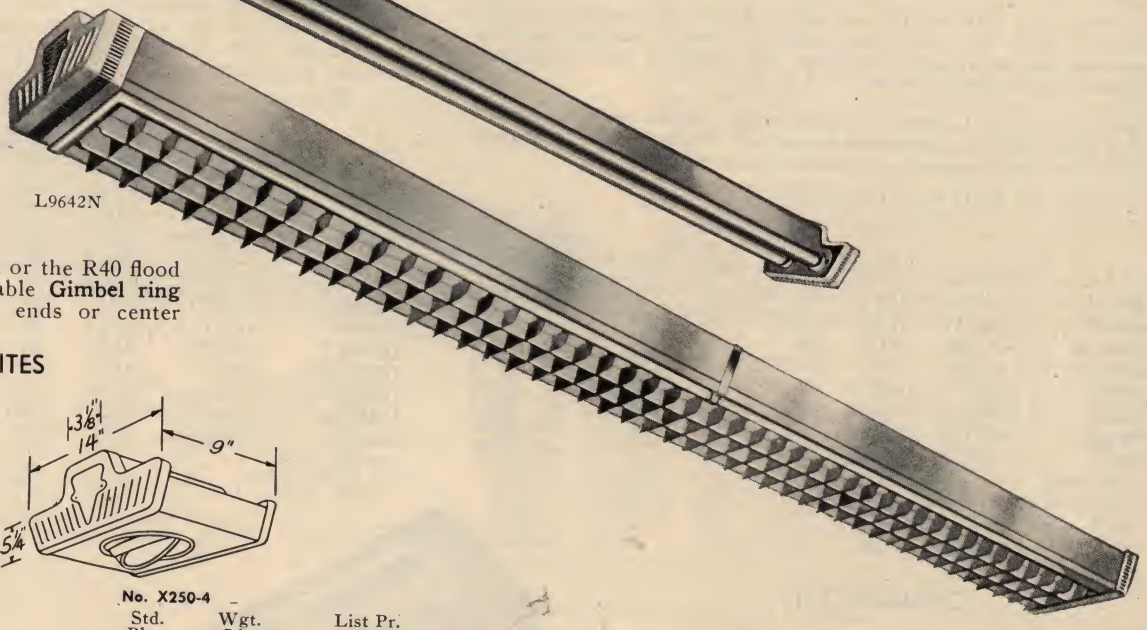
STANDARD SLIMLINE—WITHOUT and WITH LOUVER

Economical and super-efficient slimlines that not only bring true lighting, but are outstanding for their rugged simplicity. A one piece channel constructed of heavy 20 gauge steel with baked white enamel finish.

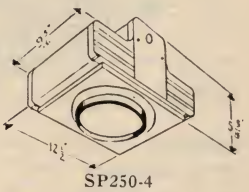
Models use the 4, 6 and 8 foot "slimline" single-pin instant start lamps. Lengths of 4, 6 and 8 feet make possible innumerable, harmonious, in-line arrangements to fit all ceilings.
In 2 and 4 lamp units, no starters—just switch to light.



"Uniturret" Lampholders—Lamps cannot fall out. Powerful spring action holds lamps securely, assures positive "flicker-proof" electrical contact.



SPOTLITES



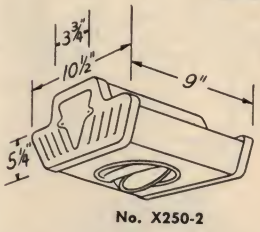
No. 250-2—For No. 9642
List Price Each ..**$18.90**

No. 250-4—For No. 9644
List Price Each .. **18.90**

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Pr. Each
9642	2-96T12	430MA	96″	5 5/16″	8″	2	67	**$35.00**
9644	4-96T12	430MA	96″	5 5/16″	11″	2	90	**57.20**

Uses a 150 watt Par 38 spot or the R40 flood light. Has fingertip adjustable **Gimbel ring** directing light beam. Fits ends or center of row.

SPOTLITES

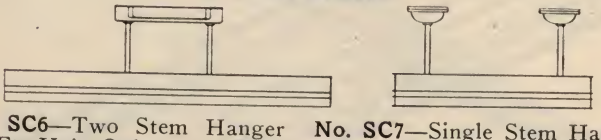


No. X250-2

No. X250-4

No.	Description	Std. Pkg.	Wgt. Lbs.	List Pr. Each
X250-2—For All 2-Lite Units		1	4	**$18.90**
X250-4—For All 4-Lite Units		1	5	**18.90**

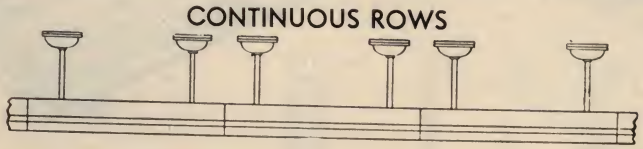
STEM HANGERS



No. SC6—Two Stem Hanger 4-Ft. Unit Only **$2.55**

No. SC7—Single Stem Hanger For All Units **$2.55**

CONTINUOUS ROWS



No.	Description	List Price Each
SC6	1-10″ double stem canopy and 2-30″ stems	**$2.55**
SC7	2-5″ slimline canopies and 2-30″ stem with flanges	**2.55**

WITHOUT LOUVER

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hgt.	Std. Pkg.	Wgt. Lbs.	List Pr. Each
9642N	2-96T12	430MA	96″	8″	5 5/16″	2	67	**$33.90**
9644N	4-96T12	430MA	96″	11″	5 5/16″	2	90	**55.45**
7642N	2-72T12	430MA	72″	8″	5 5/16″	2	60	**33.90**
7644N	4-72T12	430MA	72″	8″	5 5/16″	2	83	**55.45**
4642N	2-48T12	430MA	48″	8″	5 5/16″	1	25	**27.45**
4644N	4-48T12	430MA	48″	8″	5 5/16″	1	30	**45.55**

WITH LOUVER

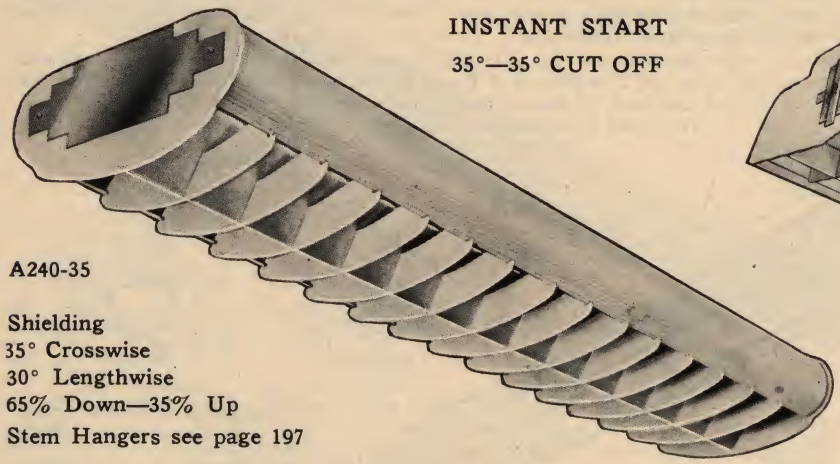
No.	No. of Lamps.	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Pr. Each
L9642N	2-96T12	430MA	96″	10″	6 11/16″	2/1	97	**$49.65**
L9644N	4-96T12	430MA	96″	13″	7¼″	2/1	120	**73.65**
L7642N	2-72T12	430MA	72″	10″	6 11/16″	2/1	40	**49.65**
L7644N	4-72T12	430MA	72″	10″	6 11/16″	2/1	113	**73.65**
L4642N	2-48T12	430MA	48″	10″	6 11/16″	1/1	35	**33.90**
L4644N	4-48T12	430MA	48″	10″	6 11/16″	1/1	40	**53.20**

200 and 300MA prices on application.

HARVSTONE FLUORESCENT FIXTURES

THE ARISTA SERIES

INSTANT START
35°—35° CUT OFF



A240-35

Shielding
35° Crosswise
30° Lengthwise
65% Down—35% Up
Stem Hangers see page 197

The efficiency of the entire "Arista" series makes it possible for these fixtures to deliver a highly desirable light distribution ratio wherever volumes of glare-free light are required as in classrooms, private and general offices, and all types of commercial installations, the "Arista" series with its characteristics of high performance combined with low-brightness contrast is desirable.

The attractive, translucent, non-static, fluted side panels are held firmly in place by convenient, easy-to-operate retainer latches, yet, they can be readily removed for cleaning and relamping without removing the louver.

Channel is made of heavy 20 gauge steel. Louver and channel are finished with E.T.L. approved baked white enamel. A decorative aluminum-finish conceals the knockout on the end.

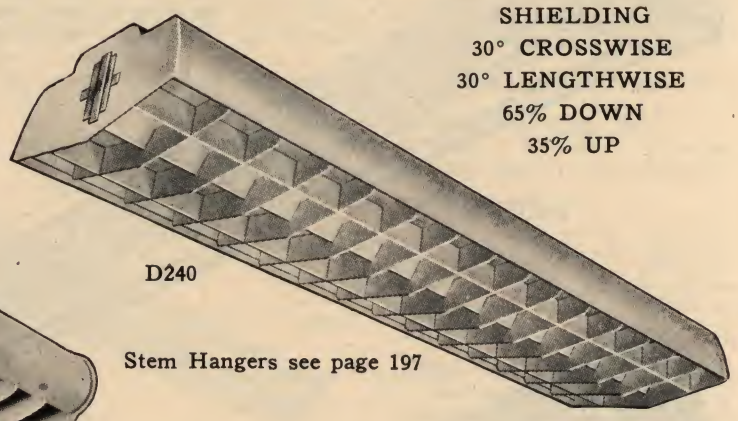
U.L. approved parts used exclusively.

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hgt.	Std. Pkg.	Wgt. Lbs.	List Price Each
A240-35	2-40W	HPF	48″	12 3/16″	5 3/16″	1	34	**$26.55**
A440-35	4-40W	HPF	49 15/16″	15 15/16″	5½″	1	36	**39.90**
AS240-35	IS*-2-40W	HPF	48″	12 3/16″	5 3/16″	1	28	**31.55**
AS440-35	IS*-4-40W	HPF	49 15/16″	15 15/16″	5½″	1	40	**49.75**
9742-35	2-96T12	430MA	96″	12 3/16″	5 3/16″	1	43	**57.65**
9744-35	4-96T12	430MA	97¾″	15 15/16″	5½″	1	85	**83.65**
4742-35	2-48T12	430MA	48″	12 3/16″	5 3/16″	1	30	**34.35**
4744-35	4-48T12	430MA	49 15/16″	15 15/16″	5½″	1	42	**55.45**

*Instant Start
200 and 300MA prices on application.

THE DIPLOMA SERIES

SHIELDING
30° CROSSWISE
30° LENGTHWISE
65% DOWN
35% UP



D240

Stem Hangers see page 197

Designed to bring truly economical and super-efficient lighting to classrooms, libraries, public buildings, institutions and all types of installations. Scientifically designed to provide high light output with low brightness contrast, free of eye-tiring variations in light intensity.

The channel is constructed of heavy 20 gauge steel. The unit is finished with E.T.L. approved baked white enamel. Side panels may be all metal, or non-static, fluted plastic. A polished chrome emblem conceals the knockout on the white end. Louver hinges from either side, dropping smoothly to allow relamping, maintenance and cleaning.

U.L. approved parts used exclusively.

No.	No. of Lamps	Rating	Lgth.	—Overall— Wdth.	Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
D240	2-40W	HPF	49″	12″	6″	1	24	**$26.10**
D440	4-40W	HPF	49″	14″	6″	1	33	**38.55**
DS240	IS*-2-40W	HPF	49″	12″	6″	1	28	**31.00**
DS440	IS*-4-40W	HPF	49″	14″	6″	1	40	**48.55**
9042	2-96T12	430MA	96″	12″	6″	1	43	**55.45**
9044	4-96T12	430MA	96″	14″	6″	1	65	**79.90**
4042	2-48T12	4300MA	48″	12″	6″	1	30	**33.00**
D4044	4-48T12	4300MA	48″	14″	6″	1	42	**51.00**
D240ST	2-40W**	HPF	49″	11″	4 5/16″	1	24	**22.80**
DS240ST	2-40W*	HPF	49″	11″	4 5/16″	1	24	**28.20**
D240STQ	2-40Wxxx	HPF	49″	11″	4 5/16″	1	24	**25.90**
D240Q	2-40Wxxx	HPF	49″	12″	6″	1	24	**28.75**
D440Q	4-40Wxxx	HPF	49″	14″	6″	1	33	....

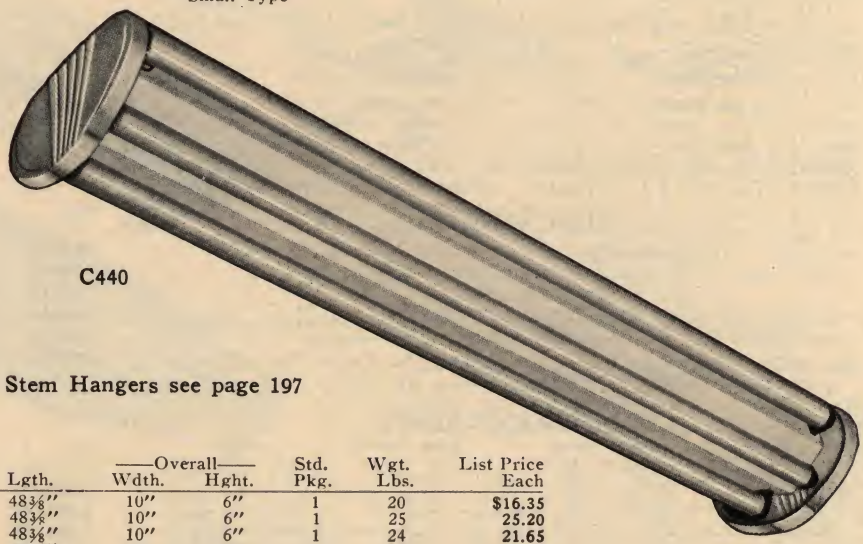
*Instant Start
xxx Rapid Start
** Small Type

COMMERCIAL

To provide easy access for maintenance and cleaning, units are provided with drop reflectors. Beautiful, decorative ends enhance the appearance of the unit.

For continuous row mounting, ends may be detached, and the two units joined together.

Channel is fabricated from heavy 20 gauge steel, and finished with E.T.L. approved, baked white enamel.



C440

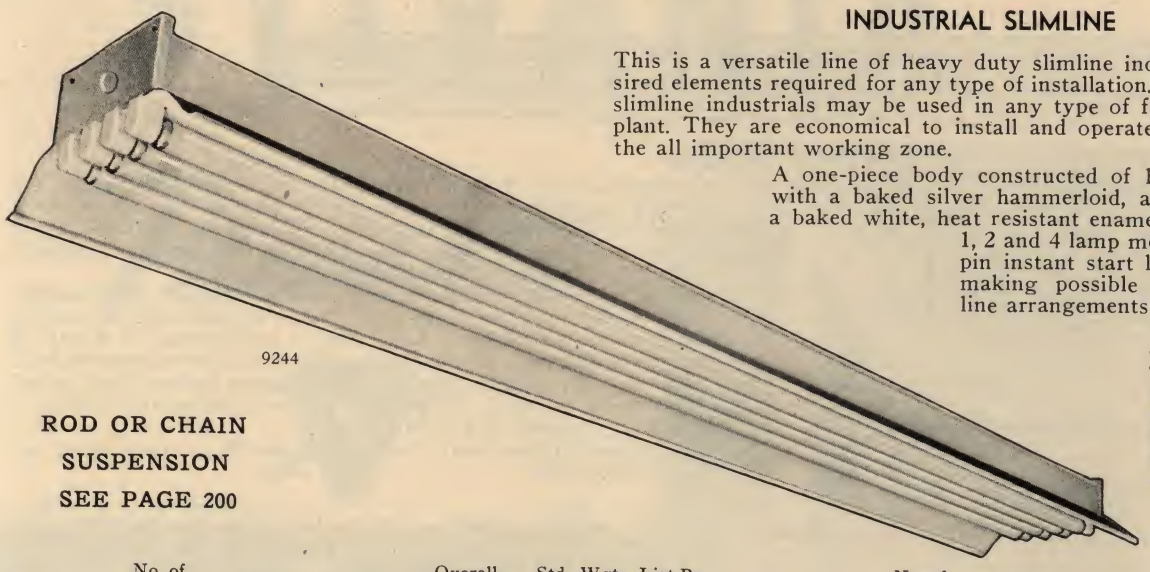
Stem Hangers see page 197

No.	No. of Lamps	Rating	Type	Rating	Lgth.	——Overall—— Wdth.	Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
C240	2-40W	40W	Reg.	HPF	48 3/8″	10″	6″	1	20	**$16.35**
C440	4-40W	40W	Reg.	HPF	48 3/8″	10″	6″	1	25	**25.20**
CS240	2-40W-IS*	40W	I.S.	HPF	48 3/8″	10″	6″	1	24	**21.65**
CS440	4-40W-IS*	40W	I.S.	HPF	48 3/8″	10″	6″	1	32	**36.45**
C240Q	2-40Wxxx	40W	Rapid	HPF	48 3/8″	10″	6″	1	24	**19.35**
C440Q	4-40Wxxx	40W	Rapid	HPF	48 3/8″	10″	6″	1	32	**31.20**

*Instant Start
xxx Rapid Start

HARVSTONE FLUORESCENT FIXTURES

INDUSTRIAL SLIMLINE



9244

This is a versatile line of heavy duty slimline industrials that have all the desired elements required for any type of installation. Of sturdy construction, these slimline industrials may be used in any type of factory, mill or manufacturing plant. They are economical to install and operate, yielding maximum light on the all important working zone.

A one-piece body constructed of heavy 20 gauge steel finished with a baked silver hammerloid, and a one-piece reflector with a baked white, heat resistant enamel.

1, 2 and 4 lamp models use the "slimline" single pin instant start lamps in 4 and 8 foot lengths making possible innumerable harmonious in-line arrangements to fit all ceilings.

U.L. approved parts used exclusively.

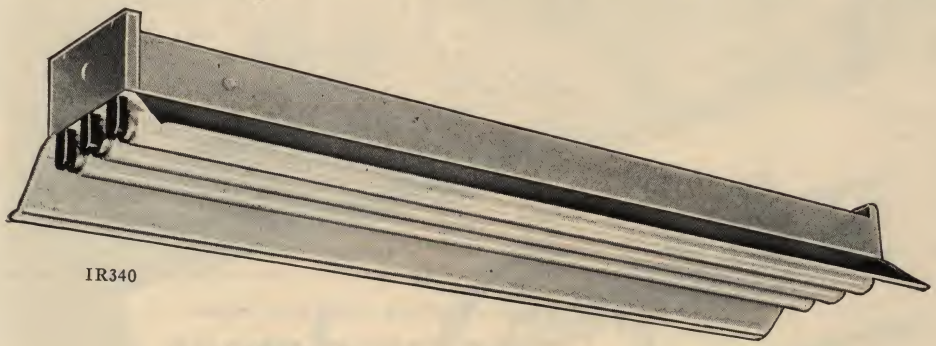
"Telescopic Lampholders"—Lamps cannot fall out. Powerful spring action holds lamps securely. Assures positive "flickerproof" electrical contact.

ROD OR CHAIN SUSPENSION

SEE PAGE 200

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Pr. Each
9241	1-96T12	430MA	96″	8 ″	6″	2	60	**$34.65**
9242	2-96T12	430MA	96″	13¾″	6″	1	50	**39.55**
9244	4-96T12	430MA	96″	16 ″	6″	1	72	**70.00**

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Pr. Each
4241	1-48T12	430MA	48″	8 ″	6″	2	40	**$31.00**
4242	2-48T12	430MA	48″	13¾″	6″	1	28	**29.35**
4244	4-48T12	430MA	48″	16 ″	6″	1	44	**51.90**



IR340

Here is an amazing value in high intensity, comfortable, fluorescent illumination for all-purpose industrial application. It is a rugged, dependable industrial unit—a scientifically designed source of easy-on-the-eye light that steps up output in every working area.

Body and reflector are constructed of heavy 20 gauge steel. The body is finished in a silver hammerloid, and the reflector is a baked white, heat resistant enamel.

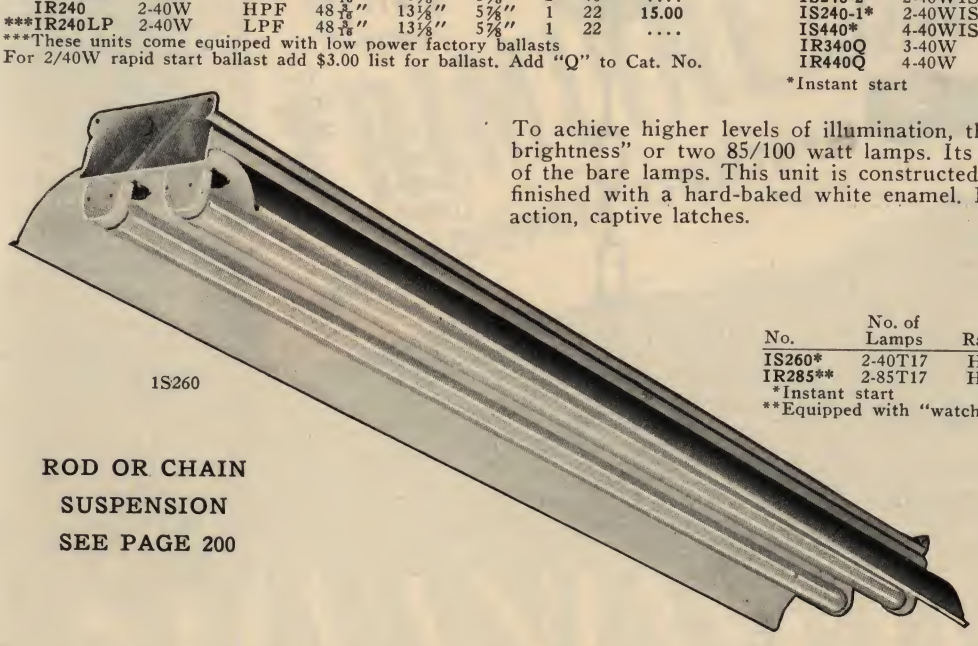
In fluorescent and instant-start, 2 lamp, 3 lamp (only in fluorescent) and 4 lamp units are available for every type of industrial application.

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
IR240	2-40W	HPF	48 3/16″	13⅛″	5⅞″	4	76	$13.90
***IR240LP	2-40W	LPF	48 3/16″	13⅛″	5⅞″	4	76	....
IR240	2-40W	HPF	48 3/16″	13⅛″	5⅞″	2	40	14.45
***IR240LP	2-40W	LPF	48 3/16″	13⅛″	5⅞″	2	40	....
IR240	2-40W	HPF	48 3/16″	13⅛″	5⅞″	1	22	15.00
***IR240LP	2-40W	LPF	48 3/16″	13⅛″	5⅞″	1	22	....

***These units come equipped with low power factory ballasts
For 2/40W rapid start ballast add $3.00 list for ballast. Add "Q" to Cat. No.

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
IR340	3-40W	HPF	48 3/16″	14¼″	5⅞″	1	25	$23.00
IR440	4-40W	HPF	48 3/16″	15⅞″	5⅞″	1	31	33.00
IS240-4*	2-40WIS	HPF	48 3/16″	13⅛″	5⅞″	4	90	21.10
IS240-2*	2-40WIS	HPF	48 3/16″	13⅛″	5⅞″	2	47	21.65
IS240-1*	2-40WIS	HPF	48 3/16″	13⅛″	5⅞″	1	26	22.20
IS440*	4-40WIS	HPF	48 3/16″	15⅞″	5⅞″	1	32	44.35
IR340Q	3-40W	HPF	48 3/16″	14¼″	5⅞″	1	25	27.10
IR440Q	4-40W	HPF	48 3/16″	15⅞″	5⅞″	1	31	38.45

*Instant start



1S260

To achieve higher levels of illumination, this unit is equipped with two 40T17-IS "low brightness" or two 85/100 watt lamps. Its efficiency is at least 82% of the total output of the bare lamps. This unit is constructed of heavy 20 gauge steel, and the reflector is finished with a hard-baked white enamel. Reflector quickly removed by turning quick-action, captive latches.

No.	No. of Lamps	Rating	Lgth.	Overall Width	Overall Hght.	Std. Pkg.	Wgt. Lbs.	List Price Each
IS260*	2-40T17	HRF	60″	13½″	5½″	1	35	$33.10
IR285**	2-85T17	HRF	60″	13½″	5½″	1	45	48.65

*Instant start
**Equipped with "watch dog" starters

ROD OR CHAIN SUSPENSION

SEE PAGE 200

HARVSTONE STRIPS

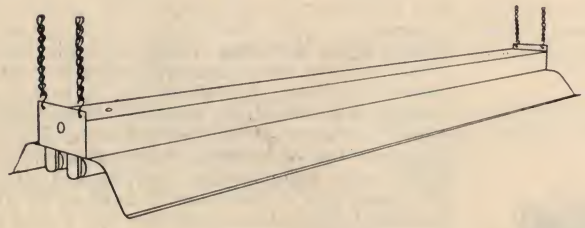


ROD SUSPENSION



Stems only—lengths over 30".
No reduction for less. Per ft.....$0.35

CHAIN SUSPENSION



Chains.....Price on Application

Unsurpassed for flexible adaptability to a limitless number of lighting applications. Designed for streamline vertical or horizontal mounting, single, tandem or in a continuous row. Strip lighting is the most versatile, fluorescent illumination available. Almost universal in its possibilities of application.
Simple, graceful modern design, ideally compact and durable. Easy installation for every conceivable requirement is assured by abundant knock-outs. Each unit is constructed of heavy 20 gauge welded steel, finished in baked white heat resistant enamel. For low, soft, dramatic effect in coves, green, yellow, blue or red lamps may be used. Strips with colored lamps and reflectors present a romantic and theatrical effect.
U.L. approved fluorescent ballast and electrical components are used exclusively.

No.	No. of Lamps	Rating	Type	Lgth.	Overall Wth.	Overall Hgt.	Std. Pkg.	Wgt.	List Pr. Ea.
115	1—15W	LPF	W.E. Strip	19″	2 1/16	3 3/4	6	15	$3.45
H115	1—15W	HPF	W.E. Strip	19″	2 1/16	3 3/4	6	23	9.55
120	1—20W	LPF	W.E. Strip	25″	2 1/16	3 3/4	6	18	3.55
H120	1—20W	HPF	W.E. Strips	39″	2 1/16	3 3/4	6	28	9.55
130	1—30W	LPF	W.E. Strips	39″	2 1/16	3 3/4	6	35	6.00
H130	1—30W	HPF	W.E. Strips	39″	2 1/16	3 3/4	6	44	9.45
140	1—40W	LPF	W.E. Strips	49″	2 1/16	3 3/4	6	45	6.00
H140	1—40W	LPF	W.E. Strips	49″	2 1/16	3 3/4	6	50	9.45
*TH140	2—40W	HPF	W.E. Strips	98″	4 1/2	4 3/8	3	43	13.65
H240	2—40W	HPF	W.E. Strips	48 3/16″	4 1/2	4 3/8	2	27	13.65
**LP240	2—40W	LPF	W.E. Strips	48 3/8″	4 1/2	4 3/8	2	27	....
			RAPID START STRIP						
140Q	1-40W	LPF	W.E. Strip		2 1/16	3 3/4	6	45	$7.55
H140Q	1-40W	HPF	W.E. Strip		2 1/16	3 3/4	6	50	12.20
TH240Q	2-40W	HPF	W.E. Strip		2 1/16	3 3/4	3	43	16.65
H240Q	2-40W	HPF	W.E. Strip		2 1/16	3 3/4	2	47	15.75
			140 UNITS WITH REFLECTORS						
E140	1—40W	LPF	Asymmetric Reel		2 1/16	3 3/4	3	35	$9.35
EH140	1—40W	HPF	Asymmetric Reel		2 1/16	3 3/4	3	38	12.80
F140	1—40W	LPF	Symmetric Reel		2 1/16	3 3/4	3	35	9.35
FH140	1—40W	HPF	Symmetric Reel		2 1/16	3 3/4	3	38	12.80
*TEH240	2—40W	HPF	Asymmetric Reel		4 1/2	4 3/8	2	31	20.35
*TFH240	2—40W	HPF	Asymmetric Reel		4 1/2	4 3/8	2	31	20.35

*"T" means a tandem unit. Two 4-foot units, one channel with a high power ballast and the other without.
**This unit comes equipped with low power factor ballasts.

JACK CHAIN



No. 12 Jack Chain—List Price Per 100 ft.....$7.50

CEILING HANGER



NOT WIRED
STATUARY BRONZE

No.	Std. Pkg.	List Pr. Ea.
1240—4″	32	$2.60
1240—6″	32	2.60

STRAP CANOPY PENDANT



1140

FITTER
STATUARY
BRONZE

No.	List Pr. Ea.
1140-4	$3.60
1140-6	3.60
1143S-4	5.40
1143S-6	5.40



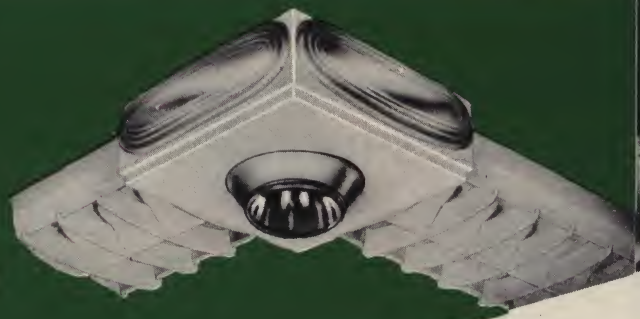
1143S

201
201A
201B
201C
201D
201E
201F
201G

SYLVANIA

Presents





the Complete

TRIMLINE *series*

OF MODERN LIGHTING FIXTURES

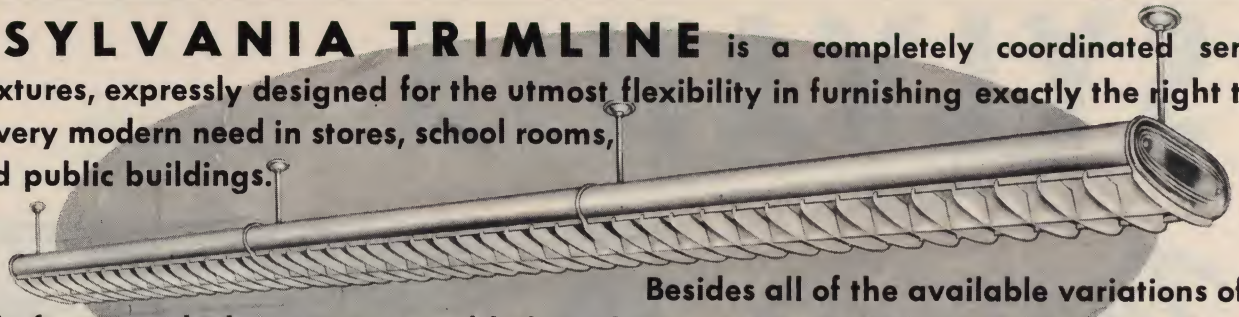


Write for catalog showing complete line of Lighting fixtures.

SYLVANIA ELECTRIC

For FLUORESCENT at its finest

The SYLVANIA TRIMLINE is a completely coordinated series of lighting fixtures, expressly designed for the utmost flexibility in furnishing exactly the right type of light for every modern need in stores, school rooms, offices and public buildings.



Besides all of the available variations of these remarkable fixtures which are mentioned below, there are TRIMSPOTS to provide accent lighting, as well as to afford limitless possibilities for arranging the entire fixture series in ceiling patterns.

STANDARD START



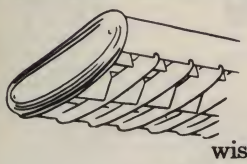
Where conventional bi-pin standard start fluorescent lamps are desirable TRIMLINE fixtures are furnished with SYLVANIA long-life fluorescent lamps and SYLVANIA starters.

OR



INSTANT START

The many advantages of SYLVANIA instant start 48″ and 96″ T-12 slimline lamps are readily available. The entire TRIMLINE series may be equipped with this added feature.

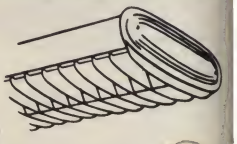


25°/35° SHIELDING

For most normal purposes, louvers which provide 25° lengthwise and 35° crosswise shielding are adequate.

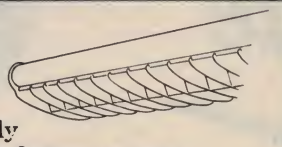
OR

45°/35° SHIELDING



Where the working task calls for more critical light control, louvers which provide 45° lengthwise and 35° crosswise shielding are available.

PLASTIC SIDES



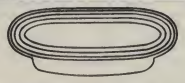
The translucent plastic side panels in the TRIMLINE series afford a continuous sweep of softly shielded light the entire length of the fixture, or rows of fixtures. The panels are removable for re-lamping and cleaning.

OR

METAL SIDES



These panels have a tendency to pick up reflected light from adjacent fixtures, and from the general room surroundings, while they completely shield the direct light from the fixture itself. The panels are removable for re-lamping and cleaning.



TWO LAMP

Where fixtures are to be mounted at normal ceiling heights, or where greater intensities are of secondary importance, 2-lamp fixtures provide an economical source of light.

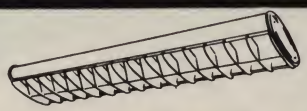
OR

FOUR LAMP



For greater mounting heights, or where higher intensities of light are required, the 4-lamp fixtures provide volumes of glare free, well diffused light.

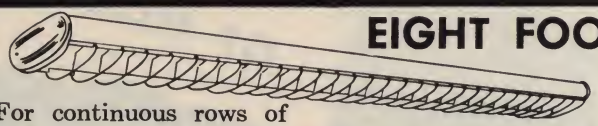
FOUR FOOT



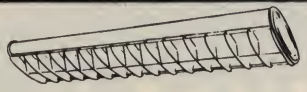
Four-foot fixtures for individual mounting, or for spacing out continuous rows, provide "just the right amount of fixture" for such purposes.

OR

EIGHT FOOT



For continuous rows of light, the eight-foot fixtures provide quicker and less costly installation. The units have the appearance of being one continuous sweep of light because they may be joined so closely together.

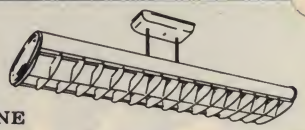


SURFACE

Where ceiling heights permit, the entire TRIMLINE series may be quickly mounted directly to the surface of the ceiling. Easy-to-install mounting plates are available for this purpose.

OR

PENDANT



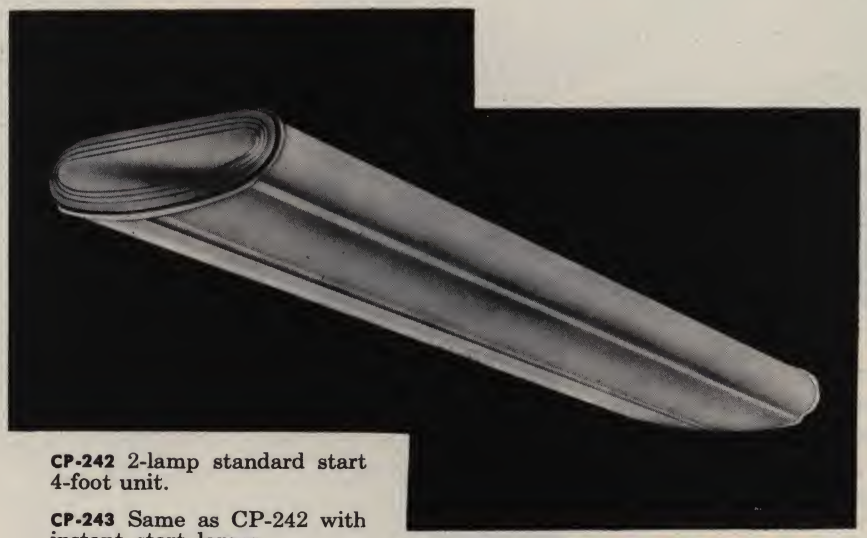
Where required, the TRIMLINE series may be individually or continuous row mounted on any one of several types of pendant hangers, which are more fully described under installation features.

For the *ULTIMATE* in Seeing Comfort

ALL PLASTIC SHIELDING

Where soft, completely diffused light is desirable such as in classrooms, and the better types of shops and salons, the plastic shielded TRIMLINE fixtures provide the ultimate in seeing comfort.

The all-plastic shielding is extrusion-molded. The controlled quality of this plastic insures it to be completely stable and distortion free. It affords faithful light transmission without changing the color of the lamps. These fixtures have a brightness of approximately 300-foot lamberts in any direction below the horizontal, and will meet the permissible doubled values of the American Standard Practice for school lighting.



CP-242 2-lamp standard start 4-foot unit.

CP-243 Same as CP-242 with instant start lamps.

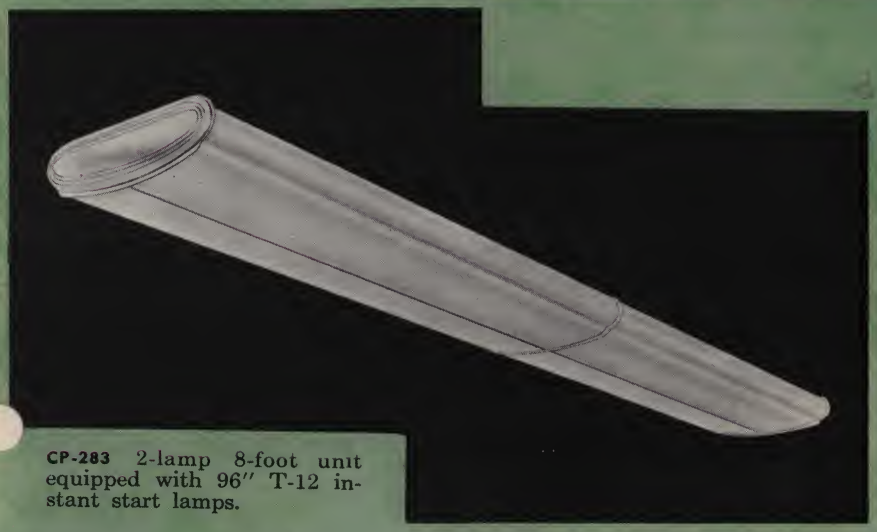
CP-442 4-lamp standard start 4-foot unit.

CP-443 Same as CP-442 with instant start lamps.









CP-283 2-lamp 8-foot unit equipped with 96″ T-12 instant start lamps.

CP-483 Same as CP-283 equipped with four instant start lamps.

Like all of the plastic used in the SYLVANIA TRIMLINE series, the all-plastic shielding is fully guaranteed against shrinkage, warping, crazing, cracking, distortion, or any other defect when subjected to normal use, for a period of five years from the date of installation.

The SYLVANIA TRIMLINE SERIES...

TWO LAMP FIXTURES

For most classrooms, private and general offices, as well as for average size stores, the two-lamp fixtures in the TRIMLINE series afford the proper foot candle levels when correctly spaced.

The high efficiency of the entire TRIMLINE series makes it possible for these fixtures to deliver a highly desirable light distribution ratio. Thus 50% of the light reaching the work comes directly from the fixture and 50% from the ceiling. The resulting diffusion and reduction of brightness contrast between the fixtures and the ceiling affords a high quality of lighting which makes for far better and more comfortable seeing conditions.



CL-242 is the two-lamp, 40 watt standard start four-foot unit — can be mounted individually, continuous row, pendant or surface.

CL-243 is the same fixture with instant start lamps.



CL-242-45 is the same four-foot unit as CL-242 but with 45° longitudinal shielding — standard start lamps.

CL-243-45 is the instant start version of this same fixture but with 45° longitudinal shielding.

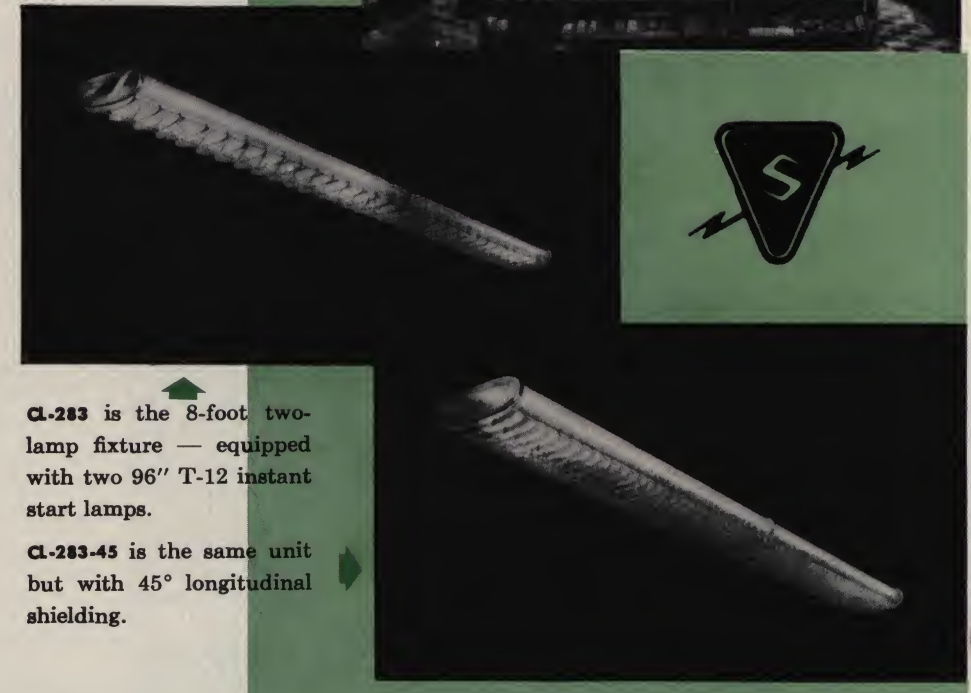


THEY FIT THE SEEING TASK

The companion two- and four-lamp fixtures in a single installation, maintain complete harmony in any lighting layout.

Just the right fixture for the seeing task becomes readily possible with the TRIMLINE series. Because such flexibility of arrangements are available, rock bottom economies are possible with the TRIMLINE series.

The plastic side panels made of extrusion moulded, high temperature, light stable plastic permit faithful transmission of true lamp color. The luminous sides add to the overall efficiency besides giving the entire fixture a luminous appearance.



CL-283 is the 8-foot two-lamp fixture — equipped with two 96" T-12 instant start lamps.

CL-283-45 is the same unit but with 45° longitudinal shielding.

A NEW HIGH IN LOW COST...

FOUR LAMP FIXTURES

The four-lamp fixtures in the TRIMLINE series have been expressly designed for more light in larger areas. In classrooms, offices and stores with high ceilings — where volumes of glare-free light are required, the four-lamp fixtures afford the same characteristics of high efficiency combined with low-brightness contrasts.

Because they have been designed to match, the four-lamp fixtures may be used in the same area with the two-lamp with pleasing results. This versatility makes the TRIMLINE series both economical and attractive, in addition to its function of producing quality lighting.





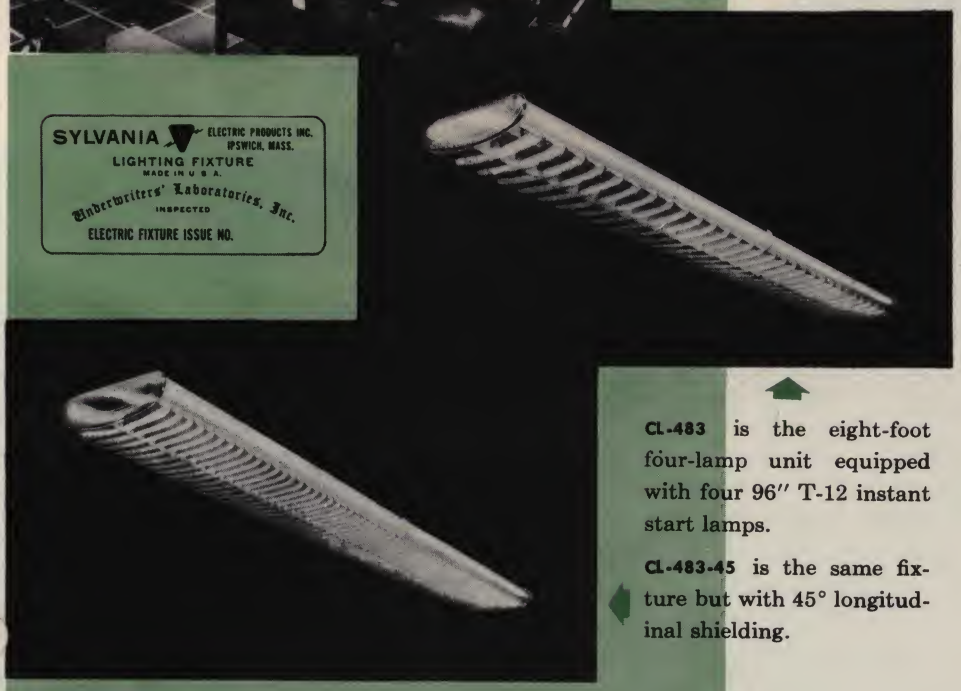
CL-442 is the four-lamp, four-foot standard start unit.

CL-443 is the same fixture with instant start lamps. Both may be mounted individually, continuously, surface or pendant.

CL-442-45 has four standard start lamps and 45° longitudinal shielding.

CL-443-45, same as CL-442–45, except with instant start lamps.





LONG SWEEPS OF LIGHT

For continuous row installations, the eight-foot fixtures afford long lines of continuous light. The units have the appearance of being one continuous fixture, so closely are they joined.

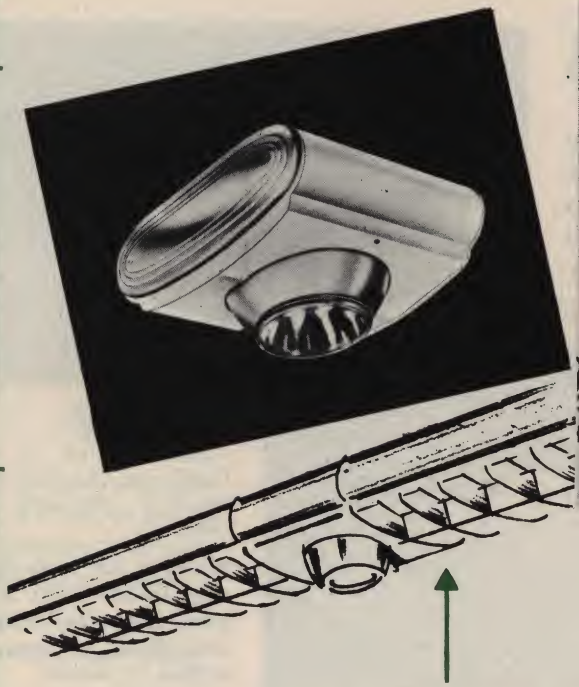
Cost of eight-foot instant start fixtures *alone* represent substantial savings over the cost of individual four-foot units. Savings in installation time and later cost of maintenance represent further appreciable economies.

The matching four-foot units, which make it possible to finish out rows to the required length, have been so designed as to make them appear a part of the eight-foot fixtures, thereby maintaining the appearance of single sweeps of light.

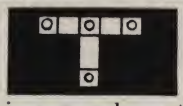
CL-483 is the eight-foot four-lamp unit equipped with four 96″ T-12 instant start lamps.

CL-483-45 is the same fixture but with 45° longitudinal shielding.

For ACCENT Lighting-TRIMSPOTS







RIMSPOTS open the way to almost unlimited decorative as well as functional possibilities; used in department and food stores as well as in smart shops, they highlight displays with dramatic impact.

Contour lighting around irregular areas — traffic patterns — lighting around columns — in fact lighting to fit right in with the architectural design is readily available.

TRIMSPOTS are designed to match both the 2-lamp and 4-lamp fixtures. They may be used as individual units, or joined in series with TRIMLINE fixtures, so that they have the appearance of being a part of any given unit.

Here is custom lighting at its finest and smartest with SYLVANIA TRIMLINE fluorescent fixtures and TRIMSPOTS.

S-152-1 For use within a row or at the end of a row of any 2-lamp TRIMLINE fixture.

Length 9½″ *Width 11⅞″* *Height 4⅜″*

S-154-1 For use with 4-lamp fixtures.

Length 9½″ *Width 16⅜″* *Height 4½″*

Includes lamps — less end caps.

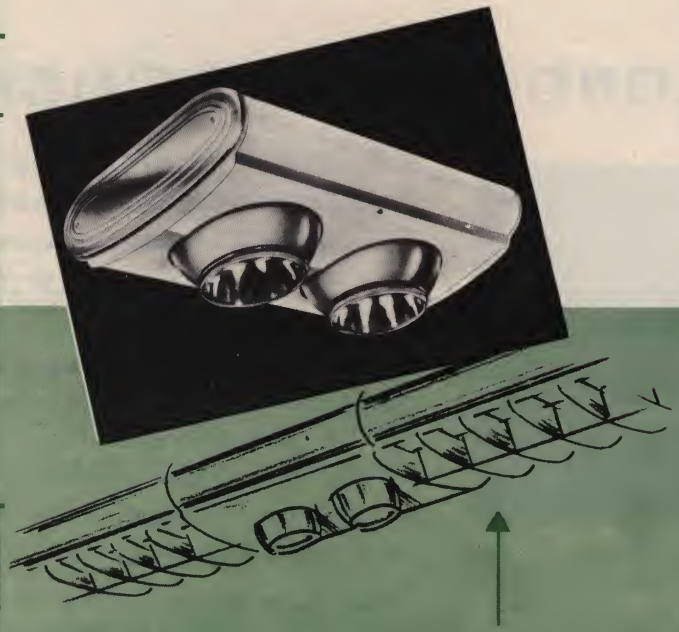
SQ-152-1 For use at corners or any intersection of 2-lamp TRIMLINE fixtures.

Unit is 11⅞″ square *Height 4⅜″*

SQ-154-1 For use with 4-lamp fixtures.

Unit is 16⅜″ square *Height 4½″*

Includes lamps — less end caps.





S-152-2 For use within a row or at the end of a row of any 2-lamp TRIMLINE fixture.

Length 17½″ *Width 11⅞″* *Height 4⅜″*

S-154-2 For use with 4-lamp fixtures.

Length 17½″ *Width 16⅜″* *Height 4½″*

Includes lamps — less end caps.



for low cost INSTALLATION

ENGINEERED FOR SIMPLEST POSSIBLE INSTALLATION

The extreme simplicity and flexibility of the TRIMLINE series make installation an easy one-man job. No tools are required to prepare the fixtures for surface installation.

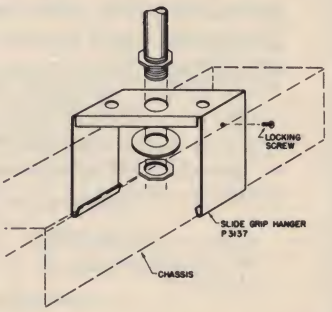
Attach the fixture directly to the ceiling with toggle or expansion bolts or screws. For individual mounting, a large center knockout in the top of the chassis is provided for convenient wiring entrance. If required because of ceiling structure, the fixture can be mounted with ceiling mounted plates.

There are numerous methods of pendant mounting, three of which are illustrated. Two types of canopies are available for pendant mounting — the deep style, for mounting over surface mounted outlet boxes; the shallow, for recessed outlets.

Aside from their moderate price for fixtures of such high quality, the TRIMLINE series makes further savings possible — in installation time — an extremely important item of initial cost.



THE SYLVANIA "QUICK GRIP" HANGER

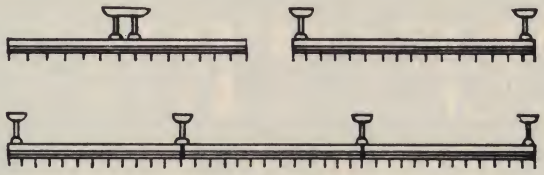


The SYLVANIA "Quick Grip" hanger permits instant one-man hanging of the entire TRIMLINE series. This hanger may be used either on the ceiling surface or connected to a conventional stem type pendant.

The hanger itself is so designed that once it has been fastened in position on the stem or ceiling, a TRIMLINE chassis is simply slipped between the hanger jaws and permitted to rest on the turned up lips formed by the bottom edges of the hanger.

The action of this device is much like a pair of ice tongs, which makes it possible to install fixtures very rapidly; and, therefore, with an extreme degree of economy.

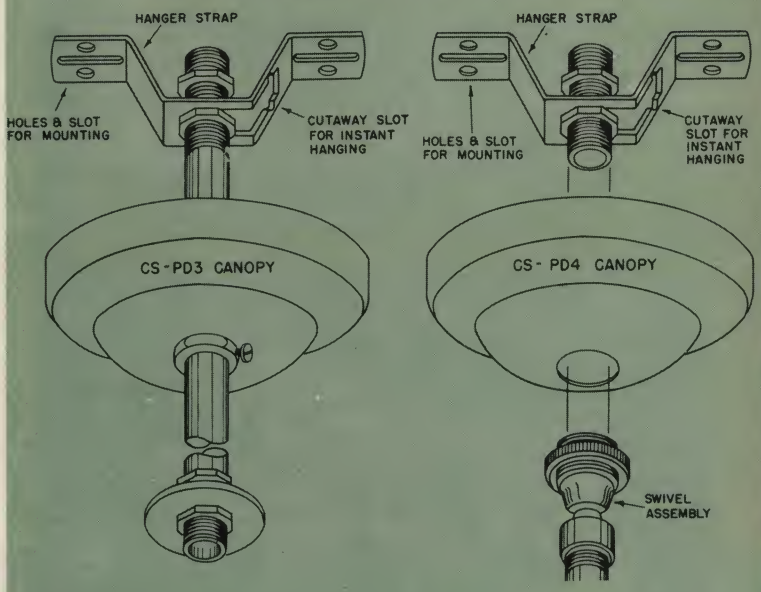
PENDANT MOUNTING METHODS



For individual mounting: 1. Twin stem pendant assembly. 2. Two single stem and canopy assemblies — one at each end. For continuous row: 3. One single stem and canopy on first and last fixture and single stem and canopy with joining mounting plate (CS-MP9) at each junction.

These three basic mounting methods afford complete flexibility of suspension. Variations of them apply to the entire TRIMLINE series.

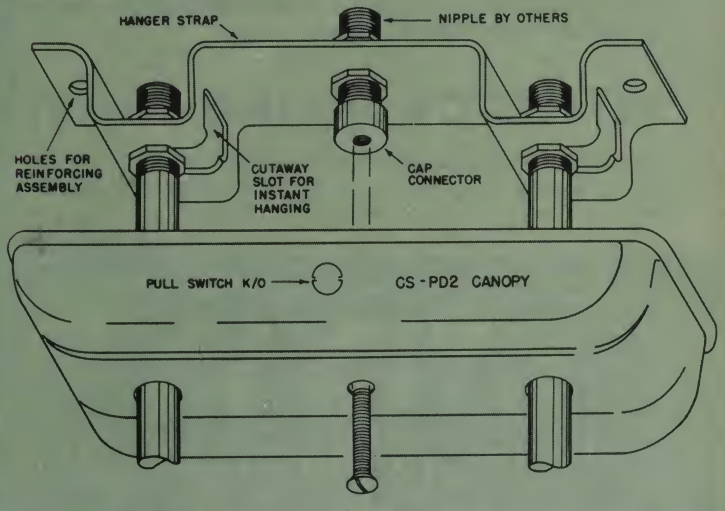
THE SYLVANIA SLOTTED PENDANT



The entire TRIMLINE series may be pendant mounted with a wide variety of pendant type hangers. Single stem and double stem hangers are available, equipped with either shallow canopies for recessed outlet boxes; or deep canopies for surface type boxes.

The slotted type hanger permits extreme ease of installation since it becomes necessary only to fasten the mounting strap to the ceiling or outlet box; after which, the stems with the fixtures attached if desired, may be lifted into position and slipped into the slot in the side of the hanger.

The single-stem hanger is available with a swivel attachment which permits vertical stems on the most uneven ceilings encountered in the installation of fluorescent fixtures. The swivel attachment permits a rotary sweep up to $7\frac{1}{2}°$ from the vertical.



Another feature of this assembly (and common to all SYLVANIA single stem assemblies) is the newly designed mounting strap. This strap, constructed of heavy gauge steel, is of such a size and design that it can be readily screwed to the ears of any standard size outlet box. Additional holes provide an alternate method of screwing direct to the ceiling. The cut-away slot in the side of the strap simplifies installation.

FOR LOW COST MAINTENANCE

To Save You TIME and MONEY

The panels are supported by the end plates and rest on the louver fins. Panels are firmly held in the retainer tabs by means of latches which slide over the top (at each end only) of the panel. The latches are held captive to the end plates and require no tools to work. Latches prevent panels from being dislodged through careless maintenance, vibration, thrown objects, etc. Latch also eliminates rattling which may occur in areas where high vibration is prevalent. Panels may be removed for cleaning by slipping off latch and removing panels.



The louver and reflector are a single rigid unit so constructed as to be free from rattling since the baffles are mechanically crimped into place in the reflector itself.

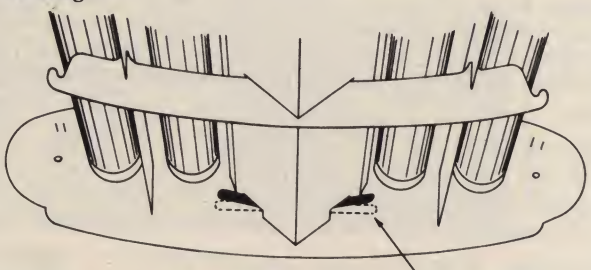
Securely held in place by a spring plate at either end of the fixture the complete louver and shielding may be lowered by a slight pressure on the fastening at either end of the unit.

Two beaded retainer chains hold it suspended beneath the fixture for easy replacement after servicing.

Re-lamping has been made easy by the simple removal of either of the plastic side baffles, which merely sit in holding tabs in the end plates. The baffles may be hung on the louvers while re-lamping.

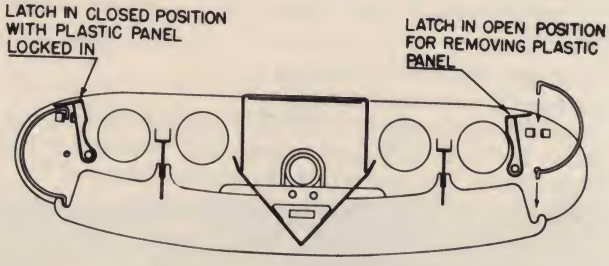
REFLECTOR SPRING LATCH

The reflector louver assemblies are fastened to the chassis by means of spring devices (on the end plates and reflector louver separator) which engage into cutouts in the ends of the reflector, as illustrated at the lower right. The use of two 4-foot reflector louver assemblies permits one-man maintenance, not possible if one 8-foot assembly is used. Assemblies are secured or released by depressing the spring arms. There are no screws or other devices necessary. A "bead chain" attachment connected to the chassis and reflectors permits the reflector to be lowered for servicing of the lamps and starters or for inspection of ballast and wiring. Reflector louvers may be disengaged from bead chain for thorough cleaning.



PLASTIC PANEL LATCH

The plastic side panels are supported by the end plates and reflector louver separator and rest on the louver fins. Panels are firmly held in the retainer tabs by means of latches which slide over the top (at each end only) of the panel. The latches are held captive to the end plates and require no tools to work. Latches prevent panels from being dislodged through careless maintenance, vibration, thrown objects, etc. Latch also eliminates rattling which may occur in areas where high vibration is prevalent. Panels may be removed for cleaning by slipping off latches.



PLASTIC PANEL LATCH DETAIL

SYLVANIA ELECTRIC
LIGHTING FIXTURES - IPSWICH, MASS.

STERLING ELECTRIC COMPANY

MINNEAPOLIS 2, MINNESOTA

F-547 15M 10-51 PRINTED IN U. S. A. L. A.

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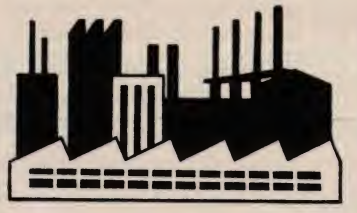
INDUSTRIAL *Fluorescent Lighting* FIXTURES

During recent years American industry has made some startling discoveries. One of the most important was that with few, if any, changes in plant personnel or equipment, the installation of fluorescent for all general lighting:

1 — stepped up production
2 — greatly reduced accidents
3 — cut manufacturing rejects and "seconds" materially
4 — improved stock control and warehousing operations

Industrial fluorescent lighting — by SYLVANIA — has contributed a large share of these and other improvements to American manufacturing and related activities. With the equipment described in this folder, such improvements are available to YOUR plant . . . whether it is old or new, large or small . . . and whatever its processing and structural conditions may be.

S Y L V A N I A



Write for catalog showing complete line of Lighting fixtures.

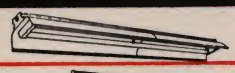
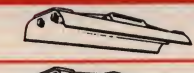
MAKE THE "FIXTURE SELECTOR" YOUR GUIDE

TO IMPROVED PLANT MORALE AND BETTER PRODUCTION

Listed below is the most complete line of industrial fluorescent fixtures available today. Of advanced engineering design, they are the finest Sylvania has ever developed. Among the 9 design families and 34 individual models listed, you are certain to find a selection that is RIGHT for your general lighting needs — and budget. With each model listed in the Selector, you'll find its basic design and construction details. Further helpful information is given in the following pages. Complete specifications and lighting data available on request.

THE SYLVANIA INDUSTRIAL FIXTURE SELECTOR

"50th ANNIVERSARY" fixtures for continuous row, or individual, mounting.

	Model Number	No. & Watt of Lamps	Lamp Type	Type of Ballast	Lamp Holder	Reflector Type	Reflector Finish	Lamp Spacing	Fixture Length
	NT-2968 RLM NT-3968 RLM	2-75 3-75	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	OE OE	M or P M or P	5″ 2½″	8′–3″ 8′–3″
	NT-2484 RLM NT-3484 RLM	2-40 3-40	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	OE OE	M or P M or P	5″ 2½″	4′–1½″ 4′–1½″
	NTC-2968 P NTC-3968 P	2-75 3-75	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	CE CE	M or P M or P	5″ 2½″	8′–3″ 8′–3″
	NTC-2484 RLM NTC-3484 RLM	2-40 3-40	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	CE CE	M or P M or P	5″ 2½″	4′–1½″ 4′–1½″
	NT-2726 RLM NT-3726 RLM	2-60 3-60	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	OE OE	M or P M or P	5″ 2½″	5′–11½″ 5′–11½″
	NTC-2726 P NTC-3726 P	2-60 3-60	T12 SP-IS T12 SP-IS	SS* SS*	Tur Tur	CE CE	M or P M or P	5″ 2½″	5′–11½″ 5′–11½″
	NT-4408 RLM NT-6408 RLM	4-40 6-40	T12 BP-Ph T12 BP-Ph	Ph Ph	Tur Tur	OE OE	M or P M or P	5″ 2½″	8′–3″ 8′–3″
	NT-2404 RLM NT-3404 RLM	2-40 3-40	T12 BP-Ph T12 BP-Ph	Ph Ph	Tur Tur	OE OE	M or P M or P	5″ 2½″	4′–1½″ 4′–1½″
	NTC-4408 RLM NTC-6408 RLM	4-40 6-40	T12 BP-Ph T12 BP-Ph	Ph Ph	Tur Tur	CE CE	M or P M or P	5″ 2½″	8′–3″ 8′–3″
	NTC-2404 RLM NTC-3404 RLM	2-40 3-40	T12 BP-Ph T12 BP-Ph	Ph Ph	Tur Tur	CE CE	M or P M or P	5″ 2½″	4′–1½″ 4′–1½″
	NT-48511 RLM NT-2855-5 RLM	4-85 2-85	T17 BP-Ph T17 BP-Ph	Ph Ph	Tur Tur	OE OE	M or P M or P	5″ 5″	11′–⅛″ 5′–6⅛″
	N-48511 RLM N-2855-5 RLM	4-85 2-85	T-17 BP-Ph T-17 BP-Ph	Ph Ph	Mog-BP Mog-BP	OE OE	M or P M or P	5″ 5″	11′–⅛″ 5′–6⅛″
SEMI-DIRECT — Continuous Row/or individual NMS Series									
	NMS-2968	2-75	T12 SP-IS	SS*	Tur	CE	M	5″	7′–11 9/16″
	NMS-2484	2-40	T12 SP-IS	SS*	Tur	CE	M	5″	3′–11 9/16″
Continuous row/or individual E Series									
	E-4408 E-6408	4-40 6-40	T12 BP-SS T12 BP-SS	Unc Unc	Med-BP Med-BP	OE OE	M M	5″ 2½″	8′–3″ 8′–3″
	E-2404 E-3404	2-40 3-40	T12 BP-SS T12 BP-SS	Unc Unc	Med-BP Med-BP	OE OE	M M	5″ 2½″	4′–1½″ 4′–1½″
	E-2202	2-20	T12 BP-Ph	Ph-LPF	Med-BP	OE	M	5″	2′–¾″
Individual/or continuous row HF Series									
	HF-100 RLM HF-150 P	2-40 3-40	T12 BP-SS T12 BP-SS	Ph Ph	Med-BP Med-BP	OE OE	M or P M or P	5″ 2½″	4′–1¾″ 4′–1¾″
	HF-235 RLM	2-85	T17 BP-SS	Ph	Mog-BP	OE	M or P	5″	5′–1½″

LEGENDS BP-Bi-pin CE-Closed End IS-Instant Start LPF-Low Power Factor M-Miracoat Mog-Mogul Med-Medium
*Lead-lag available on special order OE-Open End P-Porcelain Ph-Preheat Standard Start SS-Series Sequence SP-Single Pin Tur-Turret Unc-Uncompensated

Now SYLVANIA'S NEW 50th Anniversary Series INDUSTRIAL FIXTURES

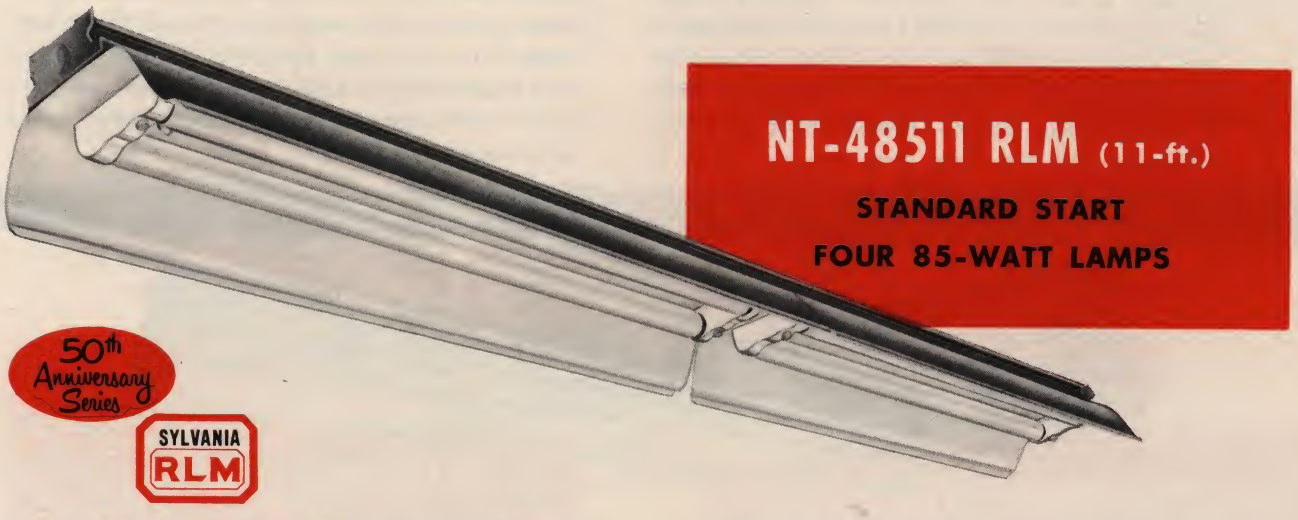
FOR CONTINUOUS ROW MOUNTING

Here's continuous row industrial fluorescent at its best—in efficiency, economy and VERSATILITY. Shown below and on the following two pages are the five basic "50th Anniversary" fixtures — available in 24 distinct and separate models.

With one basic reflector in two widths, two channel-type, one-piece tophousings and standard parts you have your choice of . . .

- **1—two, three, four or six-lamp units**
- **2—instant or standard starting**
- **3—20, 40, 60, 75, 85 or 100-watt lamps**
- **4—2′, 4′, 5½′ 6′, 8′, or 11′ fixtures**
- **5—open-end or closed-end reflectors**
- **6—unshielded or louver shielded fixtures**
- **7—dust covers of plastic or glass for closed end fixtures**
- **8—porcelain or Miracoat baked enamel reflectors.**

Never before have so many specific features and possible variations been built into a line of industrial fluorescent fixtures for continuous row lighting. These new "50th Anniversary" units now offer you industrial fluorescent lighting in its simplest, most economical and adaptable form.

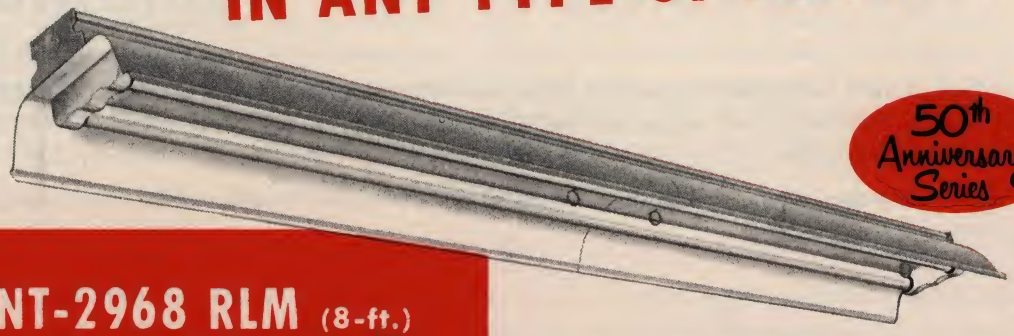


NT-2855-5 RLM Two 85-watt lamps (5½-ft.) **N-48511 RLM Four 85-watt lamps (11-ft.)**

N-2855-5 RLM Two 85-watt lamps (5½-ft.)

These recent additions to the Sylvania industrial line of fluorescent fixtures — with one-piece channel-type top-housing — were designed chiefly to provide the economical installation and maintenance advantages of continuous row 85-watt lamp fixtures. The NT-28511 and NT-2855-5 are open end fixtures with turret type lampholders while the N-28511 and N-2855-5 are open end with mogul bipin lampholders. NT and N-48511 RLM fixtures are a trifle over 11 feet long and are Sylvania's most powerful fluorescent lighting units. With four 85-watt lamps, in tandems of two, they deliver (with white lamps) a total light output of 19,040 lumens! If a higher lighting level is desired 100-watt T-17 lamps can be provided, on special order. Each of the two 5′ 6″ reflectors are 16⅜″ wide. The 2-lamp NT and N-2855-5 RLM fixtures are most commonly used to finish out rows of the 48511 fixtures. All are ideally suited for high level lighting with normal mounting heights — or more normal lighting levels with high mounting and wide fixture spacing. These fixtures can, if desired, be mounted individually. RLM porcelain enamel reflectors are standard — Miracoat baked enamel reflectors also available.

ENGINEERED FOR BETTER INDU
IN ANY TYPE OF PLANT . . . FOR AN



50th Anniversary Series

SYLVANIA RLM

NT-2968 RLM (8-ft.)

INSTANT START

TWO 75-WATT SLIMLINE LAMPS

NT-2484 RLM Two 40-watt lamps (4-ft.)
NT-3968 RLM Three 75-watt lamps (8-ft.)
NT-3484 RLM Three 40-watt lamps (4-ft.)
NT-2726 RLM Two 60-watt lamps (6-ft.)
NT-3726 RLM Three 60-watt lamps (6-ft.)

This NT series is the instant start family of "50th Anniversary" fixtures with OPEN-END reflectors and turret type lampholders. Like its companion NTC family, described below, this series offers all the new Sylvania features of advanced, simplified design and rugged construction. The 2-lamp NT-2968 (shown) and 3-lamp NT-3968 are the basic 8′ fixtures used for continuous row, instant start installations. These 8′ units greatly simplify installations and reduce installation time and costs. They are engineered to take full advantage of Sylvania's T-12 instant start Slimline lamps—unmatched for lighting efficiency and long life. The 4-foot, 2-lamp NT-2484 and 3-lamp NT-3484 are most commonly used to finish out continuous rows of the 8′ units. NT-2726 with two 60-watt lamps and NT-3726 with three 60-watt lamps, both 6-foot fixtures, are also available. This family of fixtures assures you top lighting performance and operation — with maximum initial lamp efficiency and maintained light output.

50th Anniversary Series



NTC-2968 P (8-ft.)

INSTANT START

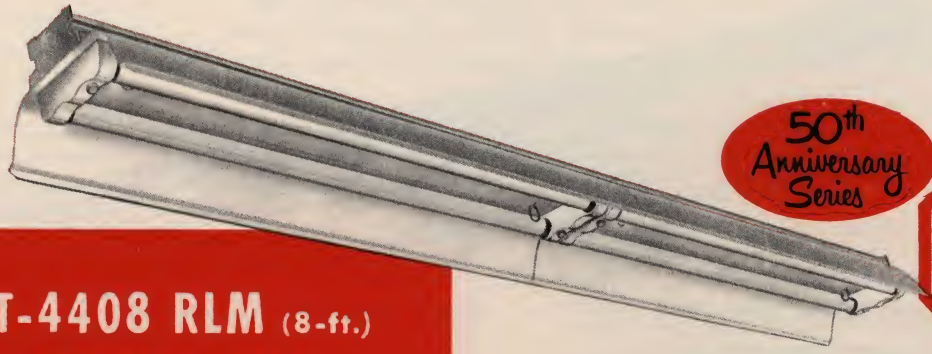
TWO 75-WATT SLIMLINE LAMPS

NTC-2484 RLM Two 40-watt lamps (4-ft.)
NTC-3968 P Three 75-watt lamps (8-ft.)
NTC-3484 RLM Three 40-watt lamps (4-ft.)
NTC-2726 P Two 60-watt lamps (6-ft.)
NTC-3726 P Three 60-watt lamps (6-ft.)

For continuous row installation, the 75-watt instant start Slimline lamps used in this and the above series — as well as the simplified wiring circuit of the fixtures — offer worthwhile advantages of lighting efficiency as well as economical installation and maintenance. The NTC-2968, shown, and its five companions have CLOSED END reflectors. Looking down the length of a row of these fixtures, their closed reflector ends reduce the distraction of open-end light sources and add rigidity and alignment to the entire unit. The 40-watt sizes are used chiefly for finishing out rows of the 8′ NTC-2968 and NTC-3968. Matching units, NTC-2726 with two 60-watt lamps and NTC-3726 with three 60-watt lamps, both 6-foot fixures, are also available. All can be mounted easily—individually as well as in continuous rows. Plastic or glass covers are available, on special order, if desired.

Complete specifications and lighting data for all Sylvania industrial fluorescent lighting equipmen

STRIAL GENERAL LIGHTING
Y MANUFACTURING REQUIREMENTS



50th Anniversary Series

SYLVANIA RLM

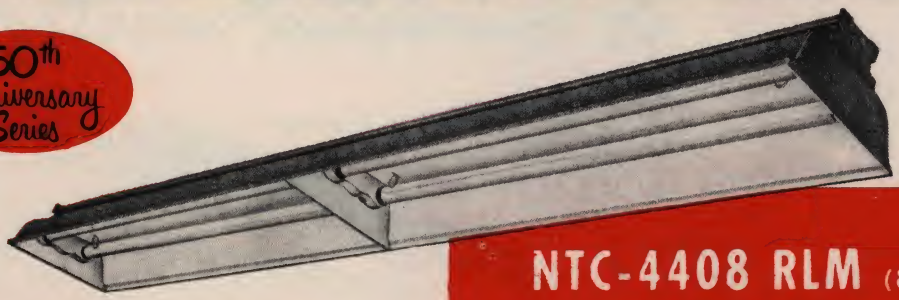
NT-4408 RLM (8-ft.)
STANDARD START
FOUR 40-WATT LAMPS

NT-2404 RLM Two 40-watt lamps (4-ft.)
NT-6408 RLM Six 40-watt lamps (8-ft.)
NT-3404 RLM Three 40-watt lamps (4-ft.)

Like all the "50th Anniversary" fixtures, the OPEN END standard start NT series — with turret type lampholders — offers outstanding advantages for continuous row mounting. Yet they can, of course, be mounted individually. Where normal lighting levels are desired the NT-4408 with four 40-watt lamps are used — with the four foot NT-2404 being available to finish out rows. Where precision work calls for higher lighting levels the 6-lamp NT-6408 is used — with the four foot 3-lamp NT-3404 available for finishing out rows. They have a one piece channel type tophousing with slide grip hanger grooves the full length of the fixture. End plates are punched for hanger hooks and quick, easy joining. As with most Sylvania industrial fixtures, RLM porcelain enamel reflectors are standard. Miracoat baked enamel reflectors are also available.

50th Anniversary Series

SYLVANIA RLM



NTC-4408 RLM (8-ft.)
STANDARD START
FOUR 40-WATT LAMPS

NTC-2404 RLM Two 40-watt lamps (4-ft.)
NTC-6408 RLM Six 40-watt lamps (8-ft.)
NTC-3404 RLM Three 40-watt lamps (4-ft.)

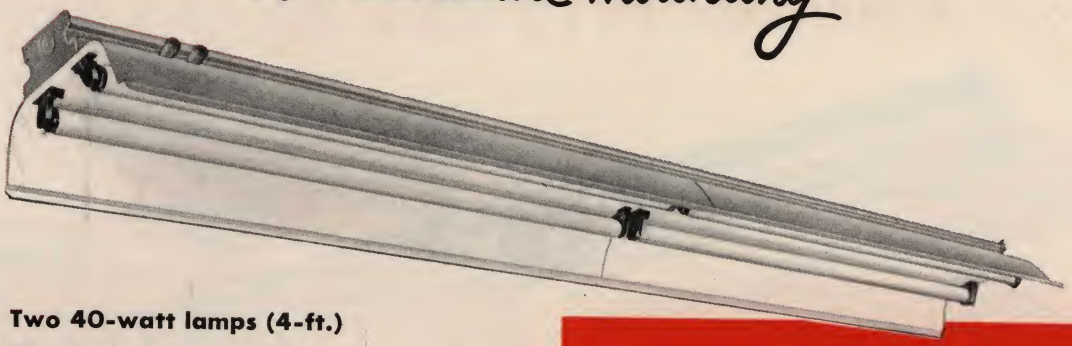
This series is the CLOSED END reflector version of the NT standard start "50th Anniversary" series, with turret type lampholders, described above. In general, the lighting applications of these two standard start series are the same. The reasons for using closed end reflectors are the same as those noted, at the left, for the NTC instant start fixtures, namely, reduced distraction of light sources and greater rigidity and alignment of the entire unit.

Here again, for continuous row installations the 8′ units — NTC-4408 and NTC-6408 — are the basic fixtures with the 4′ NTC-2404 and NTC-3404 being available for finishing rows of the 8′ units wherever necessary. This closed end, standard start series represents one more example of the completeness and versatility of Sylvania's sensational new "50th Anniversary" fluorescent fixtures.

will gladly be supplied by your nearest Sylvania lighting equipment distributor — or write direct.

'E' SERIES

for economical, continuous row or individual mounting



E-2404 Two 40-watt lamps (4-ft.)
E-6408 Six 40-watt lamps (8-ft.)
E-3404 Three 40-watt lamps (4-ft.)
E-2202 Two 20-watt lamps (2-ft.)

E-4408 (8-ft.)
STANDARD START
FOUR 40-WATT LAMPS

Designed for economical continuous row installation, this series of open-end fixtures has medium bipin lampholders, Sylvania FS-starters, uncompensated ballasts and Miracoat hard baked enamel reflectors and channel, only. They have a one-piece channel with slide grip hanger grooves the entire length of fixtures and end plates punched for hanger hooks and quick, easy joining. For continuous row installation, the 8 ft. units — E-4408 with four 40-watt lamps and the E-6408 with six 40-watt lamps — are the basic fixtures; with the 4-ft. E-2404 two 40-watt lamp fixtures, and E-3404 three 40-watt lamp fixtures, available primarily for finishing off rows of the 8-ft. fixtures. The E-2202, two 20-watt lamp, low power factor, fixture is a matching unit, used chiefly for supplementary lighting over machines, work benches and in wash rooms.

'HF' SERIES

for or individual mounting

SYLVANIA RLM



HF-150 P Three 40-watt lamps (4-ft.)
HF-235 RLM Two 85-watt lamps (5-ft.)

HF-100 RLM (4-ft.)
STANDARD START
TWO 40-WATT LAMPS

Sylvania's renowned HF Series has long maintained its original leadership among industrial fluorescent fixtures. Their one-piece, bridge-like tophousing utilizes every ounce of steel for maximum strength and balance. The HF-100 is the "granddad" of them all and, like its two companion units, has undergone frequent improvements of design and performance. While engineered chiefly for general lighting and individual mounting, the three HF's can be easily mounted in continuous rows. For supplementary lighting, HF-100 or HF-150 are frequently used directly over machines, apparatus or benches, singly or in pairs. The HF-150 is the three-lamp version of the HF-100.

For high level lighting for fine machining and other precision operations and in high bays the HF-235 with two 85-watt or 100-watt lamps, big brother of the HF Series, is available.

YOU NEED THESE SYLVANIA ADVANTAGES TO GET FLUORESCENT AT ITS FINEST!

Sylvania's improved and expanded line of industrial fluorescent fixtures offers you ALL that "Fluorescent At Its Finest" can supply. No other industrial fluorescent fixtures can give you *all* of the following:

- **COMPLETELY "packaged" fluorescent . . . fixtures, starters, ballasts, lamps supplied . . . fully wired, ready to install.**
- **MORE light LONGER . . . with Sylvania's famed "triple life" fluorescent lamps.**
- **WIDEST selection of fixture types, wattages and sizes with which to meet *any* industrial general lighting need *efficiently* and *economically*.**
- **RUGGED 20-gauge steel construction throughout . . . engineered for industrial applications.**
- **RLM fixtures with porcelain enamel reflectors are standard . . . Miracoat baked enamel finished reflectors are also available.**
- **ALL-WHITE fixture finish of either RLM porcelain or Miracoat baked enamel available . . . for food, drug, beverage, candy processing or other sanitary production areas, laboratories, first aid rooms, etc.**
- **ALL-PORCELAIN reflectors and channels available . . . for use in atmospheres of high humidity or where corrosive fumes are common.**
- **DUST COVERS of glass or plastic available for closed end fixtures . . . for use where dust laden atmosphere is encountered.**
- **SIMPLIFIED installation and minimum maintenance . . . with substantial time and labor savings.**

PLUS

SYLVANIA RLM

RLM Porcelain Reflectors

Now standard for most Sylvania industrial fixtures, RLM approved porcelain not only assures high maintained reflectivity but also a flawlessly smooth reflector surface free from specks, blisters, crazing or other imperfections.



FULL YEAR Guarantee

Sylvania backs up the quality of its lighting equipment with the most liberal and complete guarantee in the industry. It covers for a FULL YEAR* *each* fixture as a whole and every one of its parts — including starters, ballasts, lampholders, wiring *and lamps*.

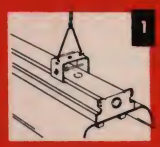
***E Series guaranteed for 90 days.**

PROTECTED BY Bonderite PARKER RUST PROOF CO. QUALITY CORROSION RESISTANT

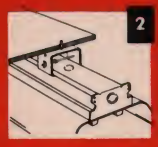
Protected by Bonderite

Metal surfaces of Sylvania Industrial Fixtures are treated with Bonderite, a corrosion resistant paint base. This coating greatly benefits paint adhesion and being non-metallic, resists and retards rust and corrosion. It anchors the paint, keeps fixtures looking better longer.

EIGHT MOUNTING METHODS to meet any lighting need and structural condition
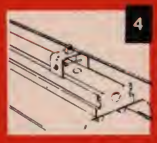


Solid chain suspension mounting to a Slide Grip Hanger.



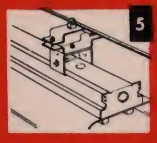
Surface mounting with bolt or lag screw and Slide Grip Hanger.



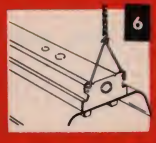
Ceiling aligner bar and rod mounting with Slide Grip Hanger.



Messenger cable clamp assembly with Slide Grip Hanger.



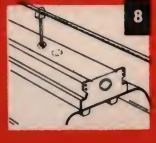
Adjustable cable clamp suspension with Slide Grip Hanger.



Chain suspension direct to fixture top-housing.



Conduit mounting direct to fixture top-housing.



Messenger cable clamp assembly direct to tophousing.

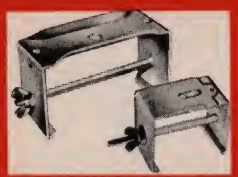
FIRST AIDS TO QUICK AND EASY INSTALLATIONS



To join channel-type fixtures in continuous rows, simply insert bushing and bolt end plates together . . .



OR to obtain a continuous open and uncongested junction, joining band assemblies can be provided.



Adjustable Slide Grip Hangers permit clearance of supporting members around pipes or other obstructions — thus making easy uniform alignment of fixtures.



Turret Spring-Type Lampholders assure quick, easy lamp removal and replacement, positive lamp seating, holds them firmly — secure against vibration.

YOU CAN FIGURE SYLVANIA FIXTURE MAINTENANCE IN DOLLARS SAVED . . . NOT HOURS WASTED

All Sylvania fluorescent fixtures are engineered for rock-bottom maintenance cost. All parts are easy to reach . . . parts in fixtures of the same type are interchangeable . . . smooth outside surfaces and turned-down-lip reflectors help prevent dust collection and make cleaning easy.

Captive spring-type latches provide for the easy removal of reflectors for cleaning without tools . . . shielding is simple to remove and replace. These and other Sylvania advantages of design and construction keep maintenance labor and costs down.



1 REMOVE LAMPS With turret lamp-holders, it's an easy job to remove lamps. And when you replace them, Sylvania's special spring-type socket feature holds them firmly — secure against vibration.



2 TURN THE CAPTIVE LATCH A quarter turn of each of the Captive Latches and the reflector is in your hands. No tools needed — no nuts or bolts to get lost. The Captive Latch stays in the channel.



3 WASH . . REPLACE Replacing washed reflectors is simple. They're interchangeable — you needn't give a thought to mix-ups. For ordinary cleaning, reflectors can remain in place and be wiped with a damp cloth.

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King 8-8300

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Amherst 1673

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Broadway 1-9467

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Rittenhouse 6-4862

OAKLAND 8, CALIFORNIA
(Emeryville 8)
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Olympic 3-0457-8-9

ST. LOUIS, MISSOURI
3529 Pine Street
Lucas 4797

SEATTLE 1, WASHINGTON
941 White-Henry-Stuart Bldg.
Elliott 7122

NEWARK, NEW JERSEY
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Market 3-1707

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500 Washington Road

INTERNATIONAL DIVISION, 1740 Broadway, NEW YORK, NEW YORK

SYLVANIA • LIGHTING FIXTURES • WHEELING W VA

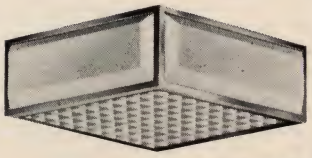
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MITCHELL

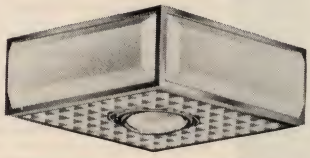
COMMERCIAL FLUORESCENT LIGHTING FIXTURES

202
202A
202B
202C

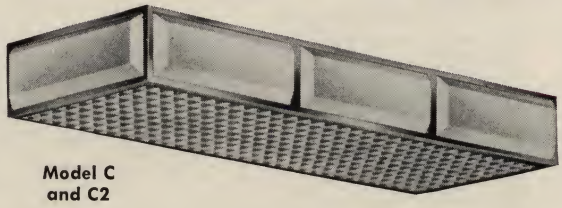
module—*the custom-fitting lighting system*



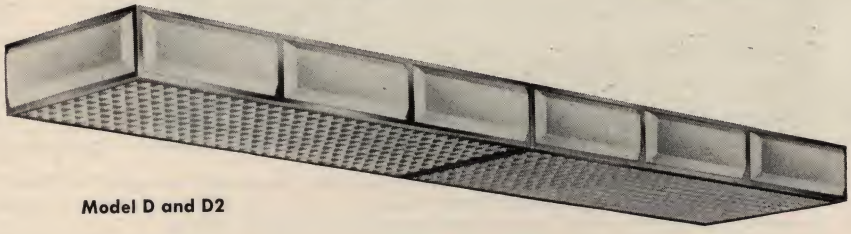
Model A and A2



Model B



Model C and C2



Model D and D2

Exclusive Mitchell Module consists of units of standardized measurement (modules), making possible the use of multiples of the units in various flexible combinations. The plan dimensions of Modules A and B are 16¼" x 16¼". Modules C and D are exact multiples of this standard measurement. The frame of these fixtures is 20 gauge steel finished in satin-aluminum—the louver, side and end panels are injection molded white Polystyrene plastic. May be mounted flush to the ceiling or from single or twin stem sets, either singly or in continuous rows.

Linear Flexibility (Fig. 1)

MITCHELL MODULE offers, for the first time, a uniform family of fixtures in lengths never before available in fluorescent lighting. Now you can have a fixture 16¼" long, 32½" long, 48¾" long, 113¾" long, etc.—all identically styled, and all exact multiples of the 16¼" MODULE A.

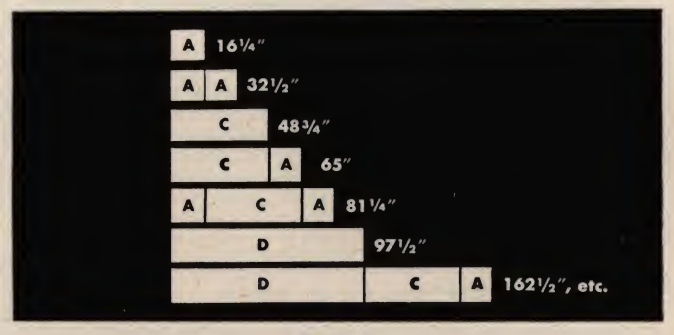


Figure 1

Limitless Pattern Designs (Fig. 2)

MITCHELL MODULE adds a *new* dimension to fluorescent lighting installations, because the MODULES can be used not only individually or in continuous rows, but, *for the first time*, in limitless 90° patterns! The four MODULES may be arranged in countless combinations.

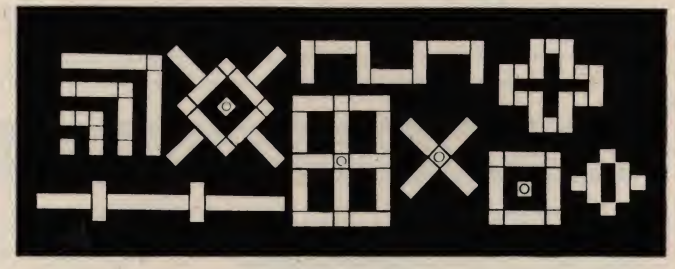


Figure 2

Mixes Light Sources (Fig. 3)

For the *first time*, MITCHELL MODULE permits the combination *in one integrated lighting system*, of 15" and 48" type F fluorescent lamps with 96" Slimline, 12" diameter Circline, and spot or floodlight incandescent lamps.

Model No.	Lamps Used	Model Dimensions
A	4-14 T-12, 15" long	16¼" x 16¼" x 6"
A-2	2-14 T-12, 15" long	16¼" x 16¼" x 6"
B	1-32 12" dia. circuline lamp and 1 par/3 SP spot or 1 par/3 FL lamp	16¼" x 16¼" x 6"
C	4-40 T-12, 48" long, Type F	48¾" x 16¼" x 6"
C-2	2-40 T-12, 48" long, Type F	48¾" x 16¼" x 6"
D	4-75 T-12, 430 ma. slimline, 96" long	97½" x 16¼" x 6"
D-2	2-75 T-12, 430 ma. slimline, 96" long	97½" x 16¼" x 6"

Write for Bulletin Nos. 360 and 370

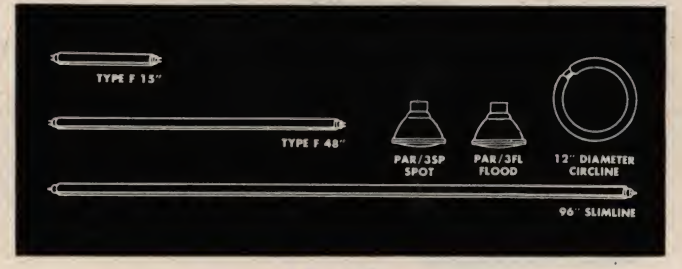
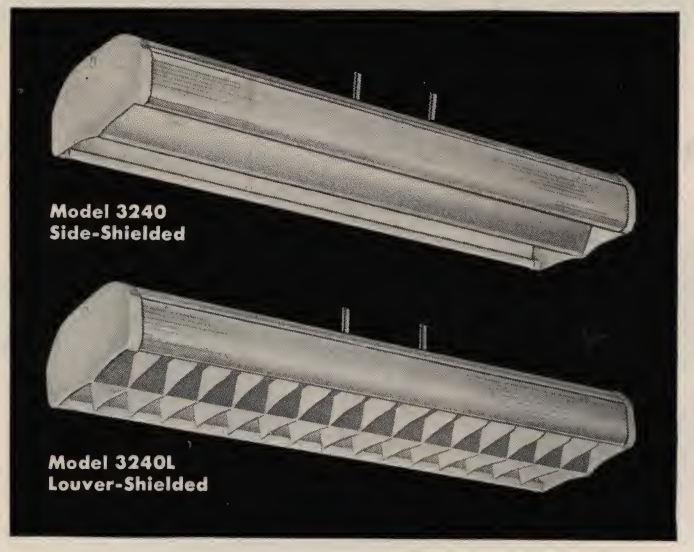


Figure 3

Write for catalog showing complete line of Lighting fixtures.

MITCHELL MANUFACTURING COMPANY CHICAGO 14, ILLINOIS

MITCHELL Mid-Century Commercial Luminaires



Model No.	Shielding	Lamps	Line Amps.
4-Foot T-12 Standard Bi-Pin and Single Pin Instant-Start			48 1/16" x 14 1/2" x 6 3/4"
3240	Side-Shielded	2-T-12 40-watt bi-pin	.85
3240L	Louver-Shielded	2-T-12 40-watt bi-pin	.85
3241	Side-Shielded	2-430 ma. single pin Instant-Start	.90
3241L	Louver-Shielded	2-430 ma. single pin Instant-Start	.90
5-Foot Low Brightness (Same light output as standard T-12 40-watt lamp, with one-half the surface brightness)			60 1/16" x 14 1/2" x 6 3/4"
3242	Side-Shielded	2-T-17 40-watt Low Bright. Instant-Start	1.00
3242L	Louver-Shielded	2-T-17 40-watt Low Bright. Instant-Start	1.00
5-Foot Krypton (More light per foot—equivalent to 100 watts, using only 85 watts)			60 1/16" x 14 1/2" x 6 3/4"
3285	Side-Shielded	2-T-17 85-watt Krypton	1.90
3285L	Louver-Shielded	2-T-17 85-watt Krypton	1.90
8-Foot Slimline (De luxe lighting for long-term economy and efficiency)			96 1/8" x 14 1/2" x 6 3/4"
3275	Side-Shielded	2-T-12 75-watt single pin Instant-Start	1.75
3275L	Louver-Shielded	2-T-12 75-watt single pin Instant-Start	1.75

Mitchell Mid-Century offers an outstanding selection of 10 models for every commercial application where abundant, glare-free lighting is desired. Here is a wide choice of the proper lighting for offices, stores, schools and public institutions. Installation is simple, and exclusive construction features cut maintenance cost and time. Mid-Century is engineered for maximum efficiency and styled to meet the requirements of modern interior architecture.

Construction—All Mid-Century units have a one-piece die-formed 20 gauge sheet steel body channel, finished in heat-resistant hard white baked enamel. Exclusive "Lumi-Sides" of white translucent polystyrene are extruded in one piece. High-efficiency "Down-Lite" Reflectors provide exceptionally high light utilization. Sides, reflector and bottom rail are easily removable for installation and maintenance. Abundant knockouts are provided for outlet box, mounting bolts and stem sets.

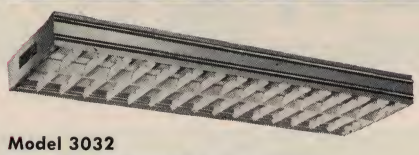
Electrical Components—All ballasts, starters and lampholders are E.T.L. Approved. 4-foot and 8-foot instant-start units have push-type single pin lampholders and 430 ma. ballasts.

Mounting—Mid-Century units may be flush or suspension mounted individually or in continuous rows. Use 032ST Stem Set for individual mounting of all 4-foot and 5-foot models; use 031ST Stem Set or the economical 036ST Steel Rod Stem Set for continuous row mounting. For 8-foot models, use 031ST or 036ST Stem Sets for either individual or continuous row mounting. ***Write for Bulletin No. 399.***

Accessories

Model No.	Description
038	Decorative End Pieces used for individual mounting or at ends of continuous rows.
361	Spotlight uses PAR-38 projector spot or flood. Mounts singly or in pairs in rows of Mid-Century Fixtures.
031ST	Stem Set consist of canopy and one 36" long 3/8" I.P. stem. Self-aligning swivel adapter.
032ST	Double stem Canopy Set (canopy, two 3'3/8" I.P. stems and crossbar).
036ST	3/8" Dia. Steel Rod stem set, 36" long

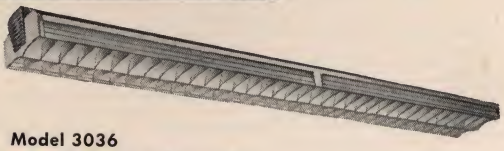
Series 3000 Commercial Fluorescent Luminaires



Model 3032
Wafer Thin, Metal Body and Louvers



Model 3031
All Steel Body and Louvers



Model 3036
All Steel Body and Louvers

Easy Versatile Mounting

MITCHELL Lighting Units are designed for the easiest and fastest mounting. Abundant knockouts and holes are provided for all types of stem suspension and flush mounting. All units are precision constructed for smooth, accurate end-to-end alignment in continuous rows; 4-foot and 8-foot fixtures can be combined to fit out ceiling areas with minimum number of units.

Minimum Maintenance

All-steel construction eliminates breakage; smooth design prevents dirt accumulation, simplifying cleaning. Relamping is easy with the exclusive "Lock-Louver" construction. MITCHELL Lighting units are noted for top performance and complete operating dependability with minimum maintenance cost. ***Write for Bulletin No. 433***

Model No.	Description	See Illustration Model No.	Dimensions
3032	4' conventional start fixture 4-40 w. 48" lamps—metal sides & ends	3032	49" x16" x3 3/4"
3033	4' conventional start fixture 4-40 w. 48" lamps—plastic sides—metal ends	3032	49" x16" x3 3/4"
3031	4' conventional start fixture 2-40 w. 48" lamps—all steel units	3031	48 1/8" x11 5/8"x5 3/4"
3037	4' instant start fixture 2-40 w. 48" lamps—all steel unit	3031	48 1/8" x11 5/8"x5 3/4"
3036	8' instant start fixture 2-75 w. 96" lamps—all steel unit	3036	96 1/8"x11 5/8"x5 3/4"

Ceiling	75%			50%		
Walls	50%	30%	10%	50%	30%	10%
Room Index	UTILIZATION FACTORS					

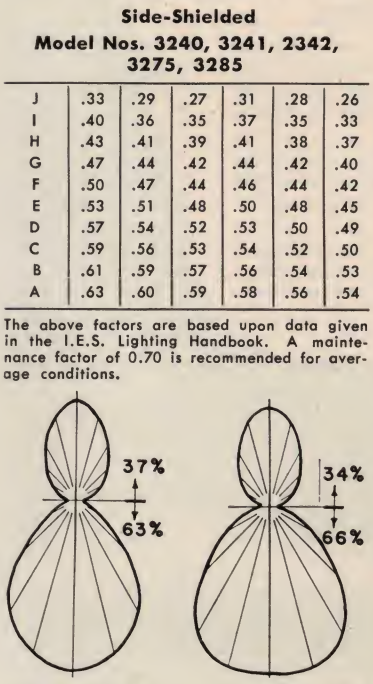
Louver-Shielded
Model Nos. 3240L, 3241L, 3242L, 3275L, 3285L

J	.30	.27	.25	.28	.26	.24
I	.36	.33	.32	.34	.31	.30
H	.39	.37	.35	.37	.35	.33
G	.43	.41	.38	.40	.38	.36
F	.46	.43	.40	.42	.40	.38
E	.49	.46	.44	.45	.43	.41
D	.52	.49	.48	.48	.46	.45
C	.54	.52	.49	.50	.48	.46
B	.56	.54	.53	.51	.50	.49
A	.58	.55	.54	.53	.51	.50

Side-Shielded
Model Nos. 3240, 3241, 2342, 3275, 3285

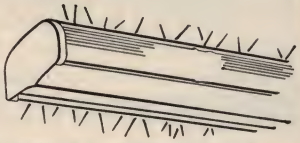
J	.33	.29	.27	.31	.28	.26
I	.40	.36	.35	.37	.35	.33
H	.43	.41	.39	.41	.38	.37
G	.47	.44	.42	.44	.42	.40
F	.50	.47	.44	.46	.44	.42
E	.53	.51	.48	.50	.48	.45
D	.57	.54	.52	.53	.50	.49
C	.59	.56	.53	.54	.52	.50
B	.61	.59	.57	.56	.54	.53
A	.63	.60	.59	.58	.56	.54

The above factors are based upon data given in the I.E.S. Lighting Handbook. A maintenance factor of 0.70 is recommended for average conditions.



Louver-Shielded Side-Shielded

FEATURES



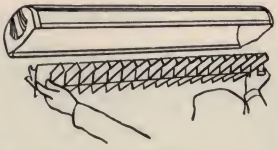
Translucent Plastic "Lumi-Sides"

Advance design extruded plastic side panels provide low surface brightness and create modern, streamlined appearance for attractive lighting.



Exclusive Down-Lite Reflector

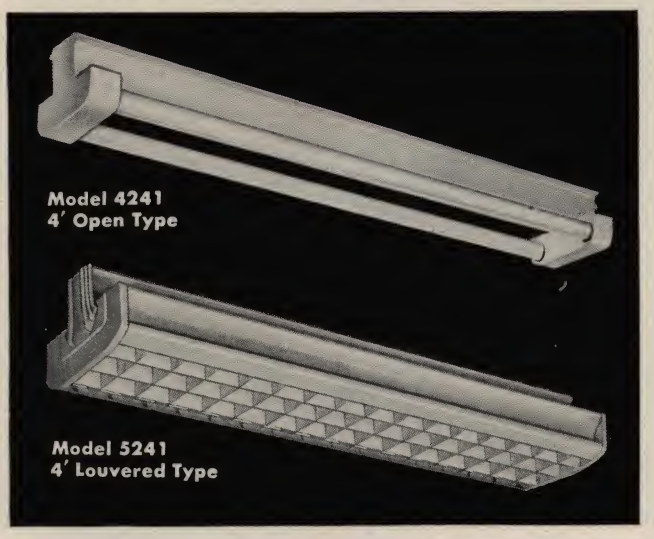
Parabolic reflector substantially increases downward component, resulting in much greater utilization and illuminating efficiency.



Exclusive 2-Position Lock-Louver

Simple hinge lock releases to drop louver on two slotted hangers, for easy re-lamping. For complete removal, press hangers. Louver snaps back into closed position.

Slimline Luminaires



Model No.	Lamps	Dimensions
4200 Series—Open Type		
4241	2-T-12 40 watt Slimline	48"x8⅛"x5½"
4341	3-T-12 40 watt Slimline	48"x8⅛"x5½"
4441	4-T-12 40 watt Slimline	48"x11" x5½"
4256	2-T-12 56 watt Slimline	72"x8⅛"x5½"
4356	3-T-12 56 watt Slimline	72"x8⅛"x5½"
4456	4-T-12 56 watt Slimline	72"x11" x5½"
4275	2-T-12 75 watt Slimline	96"x8⅛"x5½"
4375	3-T-12 75 watt Slimline	96"x8⅛"x5½"
4475	4-T-12 75 watt Slimline	96"x11" x5½"
5200 Series—Louvered Type		
5241	2-T-12 40 watt Slimline	48"x13¼"x7½"
5341	3-T-12 40 watt Slimline	48"x13¼"x7½"
5441	4-T-12 40 watt Slimline	48"x16¼"x7½"
5256	2-T-12 56 watt Slimline	72"x13¼"x7½"
5356	3-T-12 56 watt Slimline	72"x13¼"x7½"
5456	4-T-12 56 watt Slimline	72"x16¼"x7½"
5275	2-T-12 75 watt Slimline	96"x13¼"x7½"
5375	3-T-12 75 watt Slimline	96"x13¼"x7½"
5475	4-T-12 75 watt Slimline	96"x16¼"x7½"

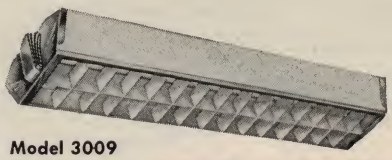
Write for Bulletin Nos. 382R and 406.



Model 3034
Open Unit—Steel Ends



Model 3005
Ceramic Sides, Glass Bottom Panels, Steel Ends



Model 3009
Metal Louvers, Ceramic Treated Glass Sides and Ends

Highly versatile and economical lighting for stores, restaurants, window displays, offices, etc. Model Nos. 3034 and 3035 use 4 foot, T-12 40 watt medium bi-pin lamps. Model Nos. 3005, 3007, 3009 and 3011 use 4 foot, T-12 40 watt medium bi-pin lamps.

Shielded models also available with instant start as Model Nos. 3006, 3008, 3010 and 3012.

Write for Bulletin No. 433.

Model No.	Shielding	Lamps	See Illustration Model No.	Dimensions
3034	None-open	2	3034	48¾"x10¼"x5⅛"
3035	None-open	4	3034	48¾"x12"x6"
3005	Glass Panel	2	3005	48"x12½"x7⅞"
3007	Glass Panel	4	3005	48"x17"x7⅞"
3009	Metal Louver	2	3009	48"x12½"x8¼"
3011	Metal Louver	4	3009	48"x17"x8¼"

MITCHELL Dynalite — 82 Job-Rated Lighting Models for Industry



MITCHELL *"Dynalite,"* the Job-Rated Industrial Lighting, offers the most *complete, versatile, uniform stock line* of fine quality industrial fluorescent units ever developed. There are 82 models to choose from in 4′, 5′, 8′, and 10′ lengths with matching 8′ or 10′ combination units. Seven methods of mounting are available. They provide a full choice of modern, high efficiency lighting for assembly lines, shops, stock areas, plants of every description. Every detail of design and construction has been carefully planned to make *"Dynalite"* universally useful—the complete answer to all the requirements of modern industrial lighting practice.

Electrical Components

Ballasts—All ballasts are E.T.L. Approved (stroboscopically corrected; power factor correction over 90%). **Lampholders**—All lampholders are E.T.L. Approved. **Starters**—All starters are E.T.L. Approved. The above components are all U.L. Listed.

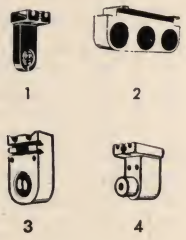
For complete details, write for Bulletin No. 438.

Six Lamp Types and Sizes

1. T-12 40-watt medium Bi-Pin. 48″ long.
2. T-17 40-watt Low-Brightness Mogul Bi-Pin. 60″ long.
3. T-17 40-watt Low-Brightness Single Pin. 60″ long.
4. T-17 85-watt Krypton Mogul Bi-Pin. 60″ long.
5. T-12 40-watt 430 ma. Slimline. 48″ long.
6. T-12 75-watt 430 ma. Slimline. 96″ long.

Four Types of Lampholders

1. Medium Bi-Pin. Conventional type plastic lampholder for standard T-12 40-watt lamps.
2. Turret Type Bi-Pin. Spring-loaded; prevents lamps from falling out under severe vibration; eliminates flicker.
3. Mogul Bi-Pin. Plastic lampholder for T-17 Mogul type lamps.
4. Push-Type Single Pin. Spring loaded lampholder; secures lamps against falling out; prevents flicker.

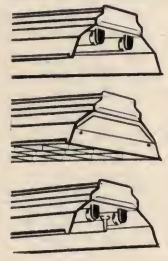


Three Types of Shielding

Standard—Open type; advance design reflector has symmetrical angle contour distributing light smoothly beneath the unit, providing 13° crosswise shielding for comfortable, efficient overall illumination.

Louvered—Efficient all-steel accessory louvers are available for use where a high degree of shielding is desirable. Shielding is 23° lengthwise, 23° crosswise.

Longitudinal Shields—Available as accessory equipment. Provide 27° or 25° crosswise shielding for 2-lamp *"Dynalite"* units. Easily attachable to reflector.



Two Types of Reflector Finishes

Baked Enamel—Smooth, hard baked white enamel surface, applied by a special MITCHELL process. Highly resistant to chipping, corrosion and discoloration. Maintains maximum light reflectance over long life.

RLM Porcelain—Extremely hard, durable fused ceramic surface that maintains whiteness and reflecting efficiency indefinitely. Highly resistant to weather, corrosion, humidity and unusually severe industrial plant conditions.

Economy Line Industrial Units



Model 2099
All Purpose 2-40 Watt Unit

Model No.	Description	Dimensions	Reflector Finish
2098	2-T-12 40 watt lamps	48″x11″x5½″	Baked Enamel
2098P	2-T-12 40 watt lamps	48″x11″x5½″	Porcelain
2099	2-T-12 40 watt lamps	48″x13¼″x6″	Baked Enamel
2099P	2-T-12 40 watt lamps	48″x13¼″x6″	Porcelain
2198	2-T-12 75 watt Slimline, instant-start	96″x10½″x6½″	Baked Enamel
2198P	2-T-12 75 watt Slimline, instant-start	96″x10½″x6½″	Porcelain

Write for Bulletin No. 449.

Mitchell Sales Offices and District Managers

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CALIFORNIA, Los Angeles—1151 S. Broadway
F. Yudelson—Telephone Prospect 9136
CALIFORNIA, San Francisco—420 Market St.
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FLORIDA, Miami—905 Chamber of Commerce Bldg.
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MITCHELL MANUFACTURING COMPANY
2525 CLYBOURN AVENUE • CHICAGO 14, ILLINOIS

202D
202E
202F
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We Have These Best-Selling MITCHELL Fluorescent Lighting Fixtures

IN STOCK NOW FOR ALL YOUR NEEDS

CALL US FOR IMMEDIATE DELIVERY

STERLING ELECTRIC COMPANY

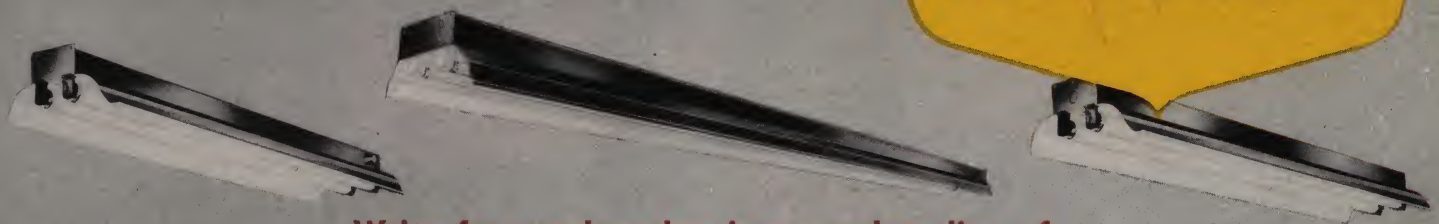
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MINNEAPOLIS



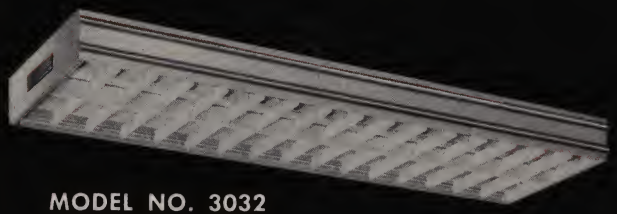
ORDER TODAY

INSTALL TOMORROW



Write for catalog showing complete line of Lighting fixtures.

Order These Quality Mitchell Fixtures Today . .



MODEL NO. 3032
4-40 WATT

2 and 4 lamp Louver Shielded Fixtures

Model No. 3032 This popular model offers a fine combination of striking modern design, high efficiency and low-cost maintenance. Uses 4 T-12 40 watt 48″ lamps. Constructed entirely of 20-gauge steel, with durable Satin Aluminum finish. Louver provides 23° crosswise and 20° lengthwise shielding for maximum comfortable illumination. May be flush or suspension mounted individually or in continuous rows. Use 032ST Stem Set for individual mounting; 031ST for rows. Knockouts and holes for mounting provided. E.T.L. Approved ballast, lampholders and starters. Operates on 110-125 volts, 60 cycle A.C. Completely wired. MITCHELL ONE YEAR GUARANTEE. U.L. Approved and Fleur-O-Lier Certified. I.B.E.W. Label. Individually packed; shpg. wt., 38 lbs.

No. 3032. Contractor-Dealer Price, Each **$29.97**



MODEL NO. 3009
2-40 WATT

Model Nos. 3009 & 3011 These two versatile models deliver high light output with minimum glare—provide handsome modern appearance in stores, offices and other commercial interiors. Designed for T-12 40 watt 48″ lamps (No. 3009, 2 lamps; No. 3011, 4 lamps). One piece die-formed 20-gauge steel wireway, finished in durable baked white enamel. Side panels are double-strength ceramic-treated glass. Satin Aluminum finished end plates. Louvers are easy to remove and clean. Shielding Angles: No. 3009, 45° crosswise and 30° lengthwise; No. 3011, 30° crosswise and 20° lengthwise. Exclusive MITCHELL "One-Man Quick Mount"—wireway channel attaches quickly and easily to special ceiling plate. Fixtures may be flush or suspension mounted, individually or in continuous rows, using 032ST Stem Sets. Abundant knockouts and mounting holes provided. E.T.L. Approved ballast, starters and lampholders. For operation on 110-125 volts, 60 cycle A.C. Completely wired, ready for line lead connections. MITCHELL ONE YEAR GUARANTEE. U.L. Approved and Fleur-O-Lier Certified. I.B.E.W. Label. Individually packed; shpg. wt., No. 3009, 41 lbs.; No. 3011, 58 lbs.

No. 3009. 2-Lamp 40 Watt Fixture.
Contractor-Dealer Price, Each **$25.32**



MODEL NO. 3011
4-40 WATT

No. 3011. 4-Lamp 40 Watt Fixture.
Contractor-Dealer Price, Each **$35.70**

Model Nos. 5275 & 5475 Instant-Start louvered models for efficient low-brightness illumination in every type of commercial establishment. Designed for T-12 430 ma. 75 watt single pin 96″ Slimline lamps (No. 5275, 2 lamps; No. 5475, 4 lamps). Body channel is made of 20-gauge die-formed steel, in one piece, finished in durable, heat-resistant baked white enamel. Steel louver has exclusive MITCHELL "Trunk-Lock" hinge that permits louver to be fastened to either side of fixture for easy relamping and maintenance. Shielding Angle: 30° crosswise and 30° lengthwise. "Uniturret" lampholders grip securely; prevent lamps from falling or flickering. Both models may be flush or suspension mounted, individually or in continuous rows, using 031ST Stem Sets. Knockouts for outlet box, mounting bolts and stems provided. E.T.L. Approved ballast. For operation on 110-125 volts, 60 cycle A.C. Completely wired, ready for line lead connections. MITCHELL ONE YEAR GUARANTEE. U.L. Approved and Fleur-O-Lier Certified. I.B.E.W. Label. Individually packed; shpg. wt., No. 5275, 73 lbs.; No. 5475, 88 lbs.



MODEL NO. 5275
2-75 WATT SLIMLINE

No. 5275. 2-Lamp 75 Watt Slimline Fixture. Contractor-Dealer Price, Each . . **$42.90**

No. 5475. 4-Lamp 75 Watt Slimline Fixture. Contractor-Dealer Price, Each . . **$63.30**



MODEL NO. 5475
4-75 WATT SLIMLINE

ORDER TODAY—GE

. We'll Deliver Immediately – FROM STOCK!

2 and 4 lamp Open Type Fixtures

Model Nos. 3034 & 3035 These attractive modern units offer highly efficient and dependable commercial lighting at low cost. Designed for T-12 40 watt 48″ lamps (No. 3034, 2 lamps; No. 3035, 4 lamps). One piece die-formed 20-gauge steel body channel is finished in baked white enamel. Satin Aluminum finished removable end pieces. Both models may be flush or suspension mounted, individually or in continuous rows. Use 032ST Stem Set for individual mounting, 031ST for rows. Knockouts for hanging and wiring provided. E.T.L. Approved ballast, lampholders and starters. For operation on 110-125 volts, 60 cycle A.C. Completely wired, ready for line lead connections. ONE YEAR MITCHELL GUARANTEE. U.L. Approved and Fleur-O-Lier Certified. I.B.E.W. Label. Individually packed; shpg. wt., No. 3034, 18 lbs.; No. 3035, 25 lbs.

No. 3034. 2-Lamp 40 Watt Fixture.
Contractor-Dealer Price, Each..... **$12.90**

No. 3035. 4-Lamp 40 Watt Fixture.
Contractor-Dealer Price, Each..... **$20.37**

Model Nos. 4275 & 4475 Practical open-type Slimline models for maximum powerful illumination. Designed for T-12 430 ma. 75 watt single pin 96″ Slimline lamps (No. 4275, 2 lamps; No. 4475, 4 lamps). Body channel is made of 20-gauge die-formed steel, in one piece, finished in hard baked white enamel. Spring-loaded "Uniturret" lampholders prevent lamps from falling or flickering. Units may be flush or suspension mounted, individually or in continuous rows, using 031ST Stem Sets. Abundant knockouts for outlet box, mounting bolts and stems. E.T.L. Approved ballast, lampholders and starters. For operation on 110-125 volts, 60 cycle A.C. Completely wired, ready for line lead connections. MITCHELL ONE YEAR GUARANTEE. U.L. Approved. I.B.E.W. Label. Individually packed; shpg. wt., No. 4275, 38 lbs.; No. 4475, 50 lbs.

No. 4275. 2-Lamp 75 Watt Slimline Fixture.
Contractor-Dealer Price, Each..... **$28.50**

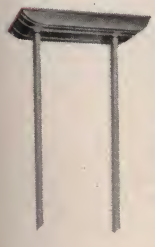
No. 4475. 4-Lamp 75 Watt Slimline Fixture.
Contractor-Dealer Price, Each..... **$48.51**



Stem Suspension Accessories

Model 031ST Stem Set. Consists of Canopy (with knockout for pull switch), one 36″ long ⅜″ I.P. Stem, patented self-aligning swivel adaptor, stem adaptor, and all necessary lock nuts and washers. In rich Satin Aluminum finish. Shpg. wt., 3½ lbs.

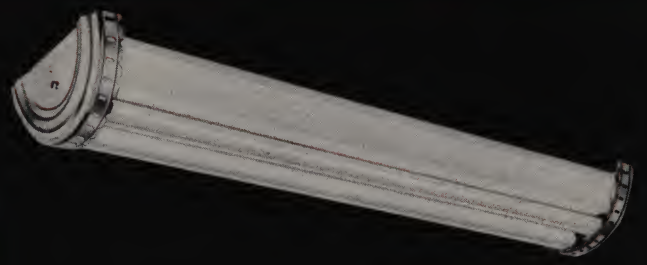
Contractor-Dealer Price, Each..... **$1.74**



Model 032ST Stem Set. Consists of Canopy (with knockout for pull switch), two 36″ long ⅜″ I.P. Stems, heavy cross bar, and all necessary lock nuts and washers. Stems are on 10″ centers. Patented Self-Leveling Swivels. Satin Aluminum finish. Shpg. wt., 4½ lbs.

Contractor-Dealer Price, Each..... **$2.25**

ET DELIVERY TODAY!



MODEL NO. 3034
2-40 WATT



MODEL NO. 3035
4-40 WATT

we stock MITCHELL fixtures
because we know they give you the quality and value you want

MITCHELL Commercial Fluorescent Fixtures are designed and built to provide the most efficient, dependable and economical lighting with minimum installation and maintenance cost. That is why we maintain a full stock and recommend them for all types of commercial and institutional use. You can be sure of obtaining the *correct* fixture for every need when you make your selection from this MITCHELL group.



MODEL NO. 4275
2-75 WATT SLIMLINE



MODEL NO. 4475
4-75 WATT SLIMLINE

IN STOCK: MITCHELL INDUSTRIAL FLUORESCENT UNITS

ORDER TODAY... ***INSTALL TOMORROW...***



No. 2198. 8-Foot Slimline for 2-75 Watt Single Pin Lamps

An ideal low cost high efficiency unit for all-purpose shop and plant use, using 2 T-12 430 ma. 96″ single pin instant-start "*Slimline*" lamps. Constructed of 20-gauge steel throughout. One piece 8-foot body channel. Reflector consists of two 4-foot sections quickly attached by two wing nuts; easy to handle and clean. Channel and reflector exterior finished in durable heat-resistant baked gray enamel. Reflector is finished in hard, durable, glossy baked white enamel. Model 2198 may be suspension mounted individually or in continuous rows by chains, rods or stem type mountings. Lampholders are approved single pin push-type—lamps will not flicker or fall out. E.T.L. Approved 430 ma. ballast. Stroboscopically corrected; power factor over 90%. Operates on 110-125 volts, 60 cycle A.C. Line Amps: 1.75. Dimensions: 96″ long, 10½″ wide, 6½″ deep. MITCHELL ONE-YEAR GUARANTEE. U.L. Approved. I.B.E.W. Label. Individually packed; shpg. wt., 52 lbs.

No. 2198. Contractor-Dealer Price, Each... **$33.48**

No. 2098. 2-40 Watt All-Purpose Unit

An outstanding value in comfortable, high-intensity lighting for all-purpose industrial use. Model 2098 uses two T-12 40-watt lamps. Can be chain suspended singly or in continuous rows, or rigid stem or rod-mounted. Strong steel wireway construction, with knockouts on top and at both ends. Bracket provided at each end for easy chain hanging. Reflector finished in hard baked white enamel for maximum light output. Wireway channel finished in smooth, durable gray. Approved ballast, sockets and FS-4 starters. Stroboscopically corrected; power factor over 90%. Operates on 110-125 volts, 60 cycles A.C. Dimensions: 48″ long, 11″ wide, 5½″ deep. U. L. Approved. Packed individually, shpg. wt., 18 lbs.

No. 2098. Contractor-Dealer Price, Each... **$10.65**

No. 2099P. 2-40 Watt, Porcelain Finish

Outstanding advantages—at low cost. Full size 13″ reflector for maximum light utilization; 5″ lamp spacing for ultra-efficient illumination; rugged steel construction; dreadnaught dependability. Can be chain suspended or rigid stem- or rod-mounted. Sturdy steel wireway has knockouts on top and at both ends; brackets for easy chain hanging. Reflector is finished in de luxe white Porcelain Enamel; wireway channel and exterior finished in gray baked enamel. Uses two T-12 40-watt lamps. Approved ballast, sockets and FS-4 starters. Stroboscopically corrected; power factor over 90%. Operates on 110-125 volts, 60 cycles A.C. Dimensions: 48″ long, 13¼″ wide, 6″ deep. U.L. Approved. Packed individually, shpg. wt., 23 lbs.

No. 2099P. Contractor-Dealer Price, Each . **$12.89**

CURTIS "SPOTTY" UNIT



A shallow, recessed incandescent down light. It utilizes either one PAR-38 or R40 screw base 150W. spot or flood lamp. An integral part of each unit are three horizontal steel baffles. These baffles are the secret of "Spotty's" exceptional low-brightness performance at normal viewing angles.

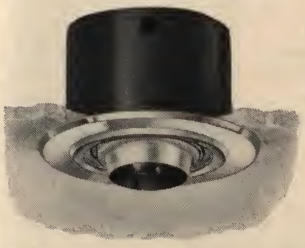
Construction: Heavy gauge steel with a durable baked black finish, inside and out. The steel finishing ring is finished baked white "Fluracite" enamel. Weight, installed, 5 lbs.

Lamp replacement is simplified by provision for access from either the top or bottom of unit. 9½" required for recessing. Unit sold less lamp. Plaster ring No. 14011 must be ordered separately.

No.		Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
2244	—Spotty Unit	1	6	**$12.50**
14011	—Plaster Ring	10*	10	**1.15**

* Bulk packed.

CURTIS "PUNCHY" UNIT



A small, highly practical downlight, sturdily constructed of steel and aluminum, utilizing one side prong PAR-38, 150-watt projector flood or spot lamp. Aluminum gimbal ring permits lamp to be adjusted to any angle 0° to 35° from the vertical and 0° to 360° horizontal. Angle of lamp is easily adjusted from the floor. Provides punch lighting for counters, showcases, mannequins, and other areas where "Attraction-Zone" lighting will give maximum sales appeal to merchandise.

Visible surfaces finished in aluminum and white Fluracite. Outside steel ring white Fluracite finish; entire gimbal ring aluminum. Housing black, steel, 6" required for recessing. Bears Underwriters' Laboratories Label. Less lamps. Plaster ring, No. 14011, must be ordered separately.

2240	—Punchy Unit	1	5	**$13.90**
14011	—Plaster Ring	10*	10	**1.15**

* Bulk packed.

CURTIS INCANDESCENT RECESSED LIGHTING



Designed to provide high levels of illumination for interiors with high ceilings, such as gymnasiums, drill halls, auditoriums, armories, indoor sports areas, field houses, etc.

Reflector units are crystal clear glass with a diamond brightness. The reflecting element applied to the outer surface is pure silver protected by the glass on the inner side and "Golden Armor" on the outer side. After prolonged use, original efficiency is immediately restored by wiping with a damp cloth.

No. 2142 complete with an efficient Curtis X-Ray silvered mirror reflector, holder, socket and shell and finishing flange.

No. 2140-H also includes a hinged steel concentric ring louver which provides 40° shielding. Louver baked gray enamel.

Flat wire guard, No. 14520 and plaster ring, No. 14313 are also available and must be ordered separately.

Note—Write for chart giving illumination, dimensional and installation details.

No.	Description	Watt Lamp**	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
2140-H**	Hinged Rim, Louver	750, 1000	4*	17	**$31.50**
2142**	Without Louver	750, 1000	4*	15	**24.90**
14520	Hinged Wire Guard	.....	..	..	**5.60**
14313	Plaster Ring	.....	..	4*	**1.70**

* Bulk packed. ** Lamp extra.

CURTIS INCANDESCENT UNITS



Recessed—Metal Housed
Large, Round, Deep Units

Heavy gauge steel finished satin gray inside and black enamel outside. "X-Ray" reflector and holder inside fitted with medium base socket. Finishing rims are steel finished in white "Fluracite" enamel. Depth 15¼", diam. 14½", hinged rim O.D. 17⅜". Lens or louver 14" diam., plaster ring No. 14038 must be ordered separately.

One—300 Watt Lamp

No.	Type	Fittings Included	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
2307	Concent.	Crackled glass lens	1	30	**$32.10**
2309	Distrib.	Crackled glass lens	1	30	**31.60**
2317	Concent.	Concentric Louver	1	28	**31.35**
2318	Distrib.	Concentric Louver	1	28	**31.35**
2327	Concent.	Lens and Louver	1	30	**37.00**

No. 2311—6" deep for one 150 watt lamp, lens only. Std. Pkg. 1, wgt. 17 lbs. List price each **17.90**

No. 2331—With lens and louver. Std. pkg. 1, wgt. 18 lbs. List price each **22.50**

One—500 Watt Lamp

2417	Concent.	Concentric Louver	1	28	**$32.85**
2418	Distrib.	Concentric Louver	1	28	**32.85**
14038	Plaster Ring		10*	10	**1.60**

* Bulk packed.

Large Shallow Units: Two—150 Watt Lamps.

Housing, heavy gauge steel, finished satin gray inside, black enamel outside. Two medium base sockets are mounted on a steel plate within the housing. A ⅞" knockout is provided in the side of the housing behind the sockets. Depth 6", diam. 14½", hinged rim O.D. 17⅜". Lens or louver 14" diam. Plaster ring No. 14038 must be ordered separately.

2302	Distrib.	Sanded glass lens	1	17	**$19.00**
2322	Distrib.	Lens and Louver	1	18	**25.85**
14038	Plaster Ring		10*	10	**1.60**

* Bulk packed.

Small Deep Units: One 200 or 300 Watt Lamp.

Heavy gauge steel finished satin gray inside and black enamel outside. "X-Ray" reflector and holder inside fitted with medium base socket. Finishing rims are steel finished in white "Fluracite" enamel. Depth 12½", diam. 11⅛", hinged rim 12⅝". Lens and louver 10" diam. Plaster ring No. 14037 must be ordered separately.

2304	Concent.	Crackled glass lens	1	18	**$23.10**
2306	Distrib.	Sanded glass lens	1	18	**22.00**
2314	Concent.	Concentric Louver	1	17	**31.25**
2315	Distrib.	Concentric Louver	1	17	**25.65**
2324	Concent.	Lens and Louver	1	19	**28.10**
2326	Distrib.	Lens and Louver	1	20	**27.25**
14037	Plaster Ring		10*	10	**1.40**

* Bulk packed.

RECESSED—METAL HOUSED

Square—Shallow—Deep



Housing heavy gauge steel, finished satin gray inside, black enamel outside. "X-Ray" reflector is mounted on a standard 4-inch outlet box, with an "X-Ray" holder and medium base socket. Hinged rims are of steel finished white "Fluracite" enamel. Depth 13¼", housing 10⅞" square. Lens or louver 10" square. Hinged rim 13¼" square. Plaster ring required if used on plaster ceiling. Must be ordered separately.

One—200 or 300 Watt Lamp

2455	Distrib.	Etched glass lens	1	18	**$29.85**
2484	Concent.	Pattern Louver	1	18	**31.50**
2485	Distrib.	Pattern Louver	1	18	**31.40**
2494	Concent.	Lens and Louver	1	21	**34.40**
2495	Distrib.	Lens and Louver	1	21	**34.35**
14042	Plaster Ring		10*	10	**2.25**

* Bulk packed.

2411—Square shallow unit. 6" depth. With lens only. Std. pkg. 1, ship. wgt. 14 lbs. List price each **19.60**

2431—With lens and pattern louver. Std. pkg. 1, ship. wgt. 15 lbs. List price each **25.80**

CURTIS MEDIUM FLUORESCENT CURTISTRIP

WITH AND WITHOUT REFLECTORS



The Medium Curtistrip is, as its name implies, the intermediate size in the Curtistrip Family. It is designed to utilize two- and four-foot fluorescent lamps.
The same flexibility of application possible in the other Curtistrips is of course available in Medium. Continuous lines, of any number of units, are simplified by the installation of one basic unit and the required extension units. Any selected unit is available with deep, shallow or asymmetric open-end reflectors; or reflectorless.

MATERIAL AND FINISH: The Medium Curtistrip wireway is constructed of cold rolled steel and all visible surfaces, except reflectors, are finished in a new lustrous baked aluminum finish. Reflectors also are of sturdy steel construction and are available in two highly efficient reflecting finishes—baked white "Fluracite" enamel and "Alzak" aluminum.

No. Steel Reflectors Finished Baked White "Fluracite" Enamel	Std. Pkg.	Wt. Lbs.	List Pr. Ea.	No. With Alzak Aluminum Reflectors	Std. Pkg.	Wt. Lbs.	List Pr. Ea.	Description	Length	Width	Depth**
2642-C2′	1	9	**$17.40**	.....	..	..	....	Basic Sec., for one, T-12, 20-watt lamp	24 1/16″	6 3/8″	5 11/16″
2642-CE2′	1	9	**17.40**	.....	..	..	....	Ext. Sec., for one, T-12, 20-watt lamp	24 1/16″	6 3/8″	5 11/16″
2642-C4′	1	17	**21.60**	**2674-C4′**	1	14	**$25.20**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	6 3/8″	5 11/16″
2642-C8′	1	34	**35.85**	**2674-C8′**	1	28	**43.00**	Basic Sec., for two, T-12, 40-w. lamps, In-line	96 1/16″	6 3/8″	5 11/16″
2642-CE8′	1	34	**35.85**	**2674-CE8′**	1	28	**43.00**	Ext. Sec., for two, T-12, 40-watt lamps, In-line	96 1/16″	6 3/8″	5 11/16″
2642-A2′	1	8	**13.25**	.....	..	..	....	Basic Section, for one, T-12, 20-watt lamp	24 1/16″	6 3/8″	5 11/16″
2642-AE2′	1	8	**13.25**	.....	..	..	....	**Extension Sec., for one, T-12, 20-watt lamp**	24 1/16″	6 3/8″	5 11/16″
2642-A4′	1	15	**18.50**	**2674-A4′**	1	12	**22.10**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	6 3/8″	5 11/16″
WITH SHALLOW OPEN-END REFLECTORS											
2646-C2′	1	8	**$16.75**	.....	1	..	....	Basic Section, for one, T-12, 20-watt lamp	24 1/16″	5″	4 3/16″
2646-CE2′	1	8	**16.75**	.....	1	..	....	**Extension Sec., for one, T-12, 20-watt lamp**	24 1/16″	5″	4 3/16″
2646-C4′	1	15	**20.70**	**2676-C4′**	1	13	**$24.00**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	5″	4 3/16″
2646-C8′	1	30	**34.00**	**2676-C8′**	1	26	**40.70**	Basic Sec., for two, T-12, 40-w. lamps, In-line	48 1/16″	5″	4 3/16″
2646-CE8′	1	30	**34.00**	**2676-CE8′**	1	26	**40.70**	Ext. Sec., for two, T-12, 40-watt lamps, In-line	96 1/16″	5″	4 3/16″
2646-A2′	1	7	**12.60**	.....	..	..	....	Basic Section, for one, T-12, 20-watt lamp	24 1/16″	5″	4 3/16″
2646-AE2′	1	7	**12.60**	.....	..	..	....	Extension Sec., for one, T-12, 20-watt lamp	24 1/16″	5″	4 3/16″
2646-A4′	1	13	**17.60**	**2676-A4′**	1	11	**20.90**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	5″	4 3/16″
WITH ASYMMETRIC OPEN-END REFLECTORS											
2650-C2′	1	8	**$17.10**	.....	..	..	....	Basic Section, for one, T-12, 20-watt lamp	24 1/16″	5 1/8″	5 11/16″
2650-CE2′	1	8	**17.10**	.....	..	..	....	Extension Sec., for one, T-12, 20-watt lamp	24 1/16″	5 1/8″	5 11/16″
2650-C4′	1	15	**21.20**	**2678-C4′**	1	13	**$23.35**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	5 1/8″	5 11/16″
2650-C8′	1	30	**35.00**	**2678-C8′**	1	26	**39.35**	Basic Sec., for two, T-12, 40-w. lamps, In-line	96 1/16″	5 1/8″	5 11/16″
2650-CE8′	1	30	**35.00**	**2678-CE8′**	1	26	**39.35**	Ext. Sec., for two, T-12, 40-watt lamps, In-line	96 1/16″	5 1/8″	5 11/16″
2650-A2′	1	7	**12.90**	.....	..	..	....	Basic Sec., for one, T-12, 20-watt lamp	24 1/16″	5 1/8″	5 11/16″
2650-AE2′	1	7	**12.90**	.....	..	..	....	Extension, for one, T-12, 20-watt lamp	24 1/16″	5 1/8″	5 11/16″
2650-A4′	1	13	**18.10**	**2678-A4′**	1	11	**20.25**	Basic Sec., for one, T-12, 40-watt lamp	48 1/16″	5 1/8″	5 11/16″
REFLECTORLESS UNITS											
				2656-C2′	1	7	**$14.60**	Basic Section, for one, T-12, 20-watt lamp	24 1/16″	3 1/8″	4 1/4″
				2656-CE2′	1	7	**14.60**	Ext. Section, for one, T-12, 20-watt lamp	24 1/16″	3 1/8″	4 1/4″
				2656-C4′	1	12	**17.25**	Basic Section, for one, T-12, 40-watt lamp	48 1/16″	3 1/8″	4 1/4″
				2656-C8′	1	23	**26.50**	Basic Sec., for two, T-12, 40-w. lamps, In-line	96 1/16″	3 1/8″	4 1/4″
				2656-CE8′	1	23	**26.20**	Ext. Sec., for two, T-12, 40-watt lamps, In-line	96 1/16″	3 1/8″	4 1/4″
				2656-A2′	1	6	**10.40**	**Basic Section, for one, T-12, 20-watt lamp**	24 1/16″	3 1/8″	4 1/4″
				2656-AE2′	1	6	**10.40**	Ext., for one, T-12, 20-watt lamp	24 1/16″	3 1/8″	4 1/4″
				2656-A4′	1	10	**14.20**	Basic Sec., for one, T-12, 40-watt lamp	48 1/16″	3 1/8″	4 1/4″

*Suffix C indicates High Power Factor Ballasts.
Suffix A indicates Normal Power Factor Ballasts.
**Dimension includes reflector. Reflectorless unit dimension includes lamp.

CURTIS "X-RAY" SHOW WINDOW LIGHTING



"X-Ray" Reflector scientifically designed for each type of light control. All "X-Ray" Reflectors have a pure silver reflecting surface, exterior coating of Golden Armor guaranteed to protect the reflector against tarnishing, cracking, peeling, blistering or discoloring.

No. 500 "King" for 300, 200, or 150-watt Medium Base lamp. Holder included. Dimensions: Width 10″; Depth, front to back, 10½″; Height, with holder 10″.
No. 500—Std. pkg. 10, wgt. 28 lbs. List price each..... **$7.00**
No. 530 "Monarch" for 300, 200, or 150-watt Medium Base lamp. Holder included. Dimensions: Diam. 9¾″; Height, with holder, 9 1/16″.
No. 530—Std. pkg. 10, wgt. 21 lbs. List price each..... **6.50**
No. 420 "Master" for 150 or 100-watt lamp. Holder included. Dimensions: Diam. 8⅝″; Height, with holder, 7 9/16″.
No. 420—Std. pkg. 15, wgt. 15 lbs. List price each..... **5.65**
No. 1010 "Blimp" for 500 or 300-watt Mogul Base lamp. Holder and socket included. Dimensions: Diam. 13″; Height, with holder and socket, 12⅜″.
No. 1010—Std. pkg. 4, wgt. 25 lbs. List price each..... **14.40**

CURTIS MOGUL CURTISTRIP

The Mogul Curtistrip is the most versatile line of lighting equipment available. Continuous line of any length can be assembled by the use of standard Mogul sections connected by sturdy steel channel couplings. The standard Mogul section is 5⅛" wide by 2⅞" deep and is available to accomodate 4', 5', 6' and 8' lamps. The cold rolled steel wire channel with baked aluminum finish is wide enough to accomodate ballasts for operating all slimline, starter-type and low-brightness fluorescent lamps. All component parts also are of steel with baked aluminum finish.

So as to permit greater flexibility in field application, all parts which comprise a complete fluorescent unit may be purchased separately. For a continuous line of Mogul Curtistrip it is only necessary to order one basic unit and fill out the remainder of the run with the extension units. Both basic and extension units are supplied completely wired with high power factor ballasts.

SINGLE LAMP WIRED UNITS



Basic Units No.	List Pr. Ea.**	No. and Type of Lamps	Std. Pkg.	Weight Installed
1301-C4'	**$27.35**	One 36 Watt, T-12, 48-inch Slimline	1	25 lbs.
1302-C5'*	**29.90**	One 85 Watt, T-17, 60-inch Mogul Bi-Pin	1	28 lbs.
1303-C5'	**29.00**	One 40 Watt, T-17, 60-inch Low-Brightness	1	28 lbs.
1304-C6'	**33.85**	One 54 Watt, T-12, 72-inch Slimline	1	32 lbs.
1305-C8'	**36.60**	One 72 Watt, T-12, 96-inch Slimline	1	40 lbs.
1306-C4'*	**19.20**	One 40 Watt, T-12, 48-inch Medium Bi-Pin	1	18 lbs.

TWO LAMP IN-LINE WIRED UNITS



Basic Units No.	List Pr. Each**	Extension Units No.	List Pr. Ea.	No. and Type of Lamps	Std. Pkg.	Weight Installed
1301-C8'	**$34.00**	**1301-CE8'**	**$33.50**	Two 36 Watt, T-12, 48-inch, Slimline	1	36 lbs.
1302-C10'*	**45.70**	**1302-CE10'***	**45.10**	Two 48 Watt, T-17, 60-inch Mogul Bi-Pin	1	49 lbs.
1303-C10'	**35.90**	**1303-CE10'**	**35.35**	Two 40 Watt, T-17, 60-inch Low-Brightness	1	43 lbs.
1304-C12'	**49.60**	**1304-CE12'**	**49.00**	Two 54 Watt, T-12, 72-inch Slimline	1	53 lbs.
1305-C16'	**55.95**	**1305-CE16'**	**55.35**	Two 72 Watt, T-12, 96 inch Slimline	1	66 lbs.
1306-C8'*	**27.75**	**1306-CE8'***	**27.20**	Two 40 Watt, T-12, 48-inch Medium Bi-Pin	1	34 lbs.

TWIN LAMP WIRED UNITS (TWO LAMPS PARALLEL)

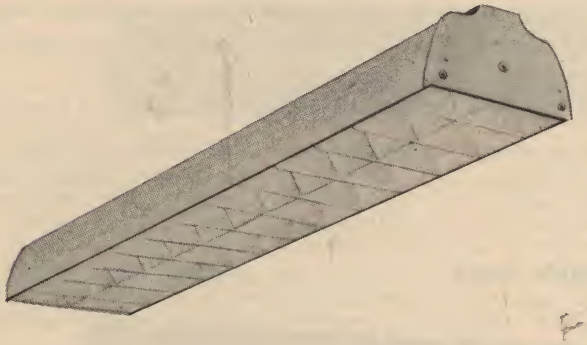


Basic Units No.	List Pr. Each**	Extension Units No.	List Pr. Ea.**	No. and Type of Lamps	Std. Pkg.	Weight Installed
1313-C4'	**$27.35**	**1313-CE4'**	**$26.75**	Two 36 Watt, T-12, 48-inch Slimline	1	24 lbs.
1314-C5'*	**36.75**	**1314-CE5'***	**36.20**	Two 85 Watt, T-17, 60-inch Mogul Bi-Pin	1	33 lbs.
1315-C5'	**27.00**	**1315-CE5'**	**26.40**	Two 40 Watt, T-17, 60-inch Low-Brightness	1	27 lbs.
1316-C6'	**38.25**	**1316-CE6'**	**37.70**	Two 54 Watt, T-12, 72-inch Slimline	1	32 lbs.
1317-C8'	**41.00**	**1317-CE8'**	**40.40**	Two 72 Watt, T-12, 96-inch Slimline	1	39 lbs.
1312-C4'*	**21.10**	**1312-CE4'***	**20.60**	Two 40 Watt, T-12, 48-inch Medium Bi-Pin	1	22 lbs.

* Requires starters.
** Without lamps.

CURTIS FLUORESCENT LUMINAIRES

Challenger Series



Designed and engineered to provide a most economical and efficient method of obtaining the higher levels of illumination required for schools, offices, stores and other commercial interiors.

Materials and Finishes

Challenger luminaires are sturdily constructed of steel, finished with a high reflectance baked white enamel.

Pendant or Close-Ceiling Mounting as Individual Units or Continuous Lines

Challengers can be suspended from the ceiling by standard Curtis single or two stem hangers, or mounted directly to the ceiling with an attractive close-ceiling mounting canopy.

Ease of Maintenance

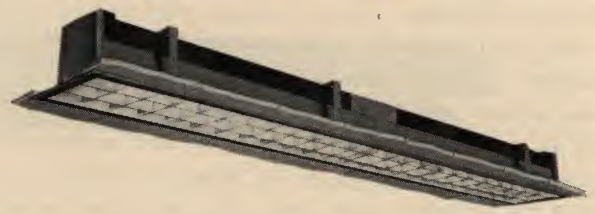
Louver is hinged so that it may be opened from either side for cleaning, relamping and replacement of starters. Maintenance is kept at a minimum as there are no horizontal reflecting or diffusing surfaces to collect dust.

No.	Lengthwise Shielding	No. and Type of Lamps	Dimension in In. L	W	D	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
*3525-CLH	25°	2-40W, T-12	48⅛	12½	5½	1	27	$24.15
*3527-CLH	...	2-40W, T-12	48⅛	12½	5½	1	25	23.25
*3528-CLH	25°	4-40W, T-12	96⅛	12½	5½	1	65	48.35

* 35° Crosswise shielding.

FLUORESCENT RECESSED TROFFERS

Two-Section Louvered



Troffers are of three general types. Equipped with side and end flanges, easy to install including T-Bar construction; however, the T-Bar clips are not used to support the unit.

General Construction Features: Wireway is suspended from "U" shape support brackets adjustable for thickness of framing and plaster or acoustical material. Reflectors are assembled to wireway with wing nuts and complete unit is drawn up to ceiling with long bolts. Sections can be wired together in lengths convenient for installation and installed as a unit, one wire entrance sufficient for entire run.

Dimensions: Unit is 48 inches long and fits into a 12" slot in the ceiling. Permits alignment of reflectors with acoustical ceiling patterns. Width at bottom over flanges 13¼". Depth above finished ceiling required for recessing 9¼" for 2-lamp units, 10½" for 3-lamp units.

Wired: Furnished wired for 110-115 volt A.C. circuits with high power factor ballasts. Total watts per 4-ft. section: 95 for 2-lamp, 143 for 3-lamp units. Bears Underwriters' Recessing Label.

Illumination Data: For locations where minimum luminaire brightness at normal viewing angles is desired specify Alzak Aluminum Troffers. Brightness of the economy Fluracite Steel Louvered Troffers and the Glass Panel Troffers is moderate and sufficiently low for many applications.

Wired and carton packed complete. Less lamps and starters.

	—Basic Unit—				—Extension—			
No.	Watt	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.	No.	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
Alzak Aluminum Louvered Troffers								
1712-C4'	2-40	1	39	$53.50	1712-CE4'	1	34	$51.80
1713-C4'	3-40	1	44	63.90	1713-CE4'	1	41	60.30
"Fluracite" Steel Louvered Troffers								
1722-C4'	2-40	1	48	$44.00	1722-CE4'	1	49	$40.40
1723-C4'	3-40	1	44	52.60	1723-CE4'	1	45	49.00
"Fluracite" Glass Panel Troffers								
1752-C4'	2-40	1	55	$41.75	1752-CE4'	1	52	$38.15
1753-C4'	3-40	1	60	50.35	1753-CE4'	1	57	46.65

CURTIS "DUA-LITE" HOSPITAL UNIT



NEW COMBINATION DIRECT-INDIRECT HOSPITAL UNIT . . . FOR NEW OR OLD CONSTRUCTION

Ideal unit for installation in private room or multi-bed wards. Provides indirect illumination for general hospital room lighting as well as direct illumination for patients' reading light. The covered glass for the indirect component is **Securit** tempered with **Sterlux** pattern. This cover glass, together with an efficient **Alzak** aluminum reflector, softly diffuses the light from the 150-watt lamp throughout the room.

A **Fresnel** lens is utilized to control distribution of the 75-watt lamp used for the direct component. There is an individual **Levolier** switch control and a convenient **outlet plug** built into each unit. The housing is cast aluminum which is readily painted after installation to blend with the room interior.

Dimensions: Width 8⅛", depth 6⅜", height 9⅜". Weight 6½ lbs. Std. pkg. 1.

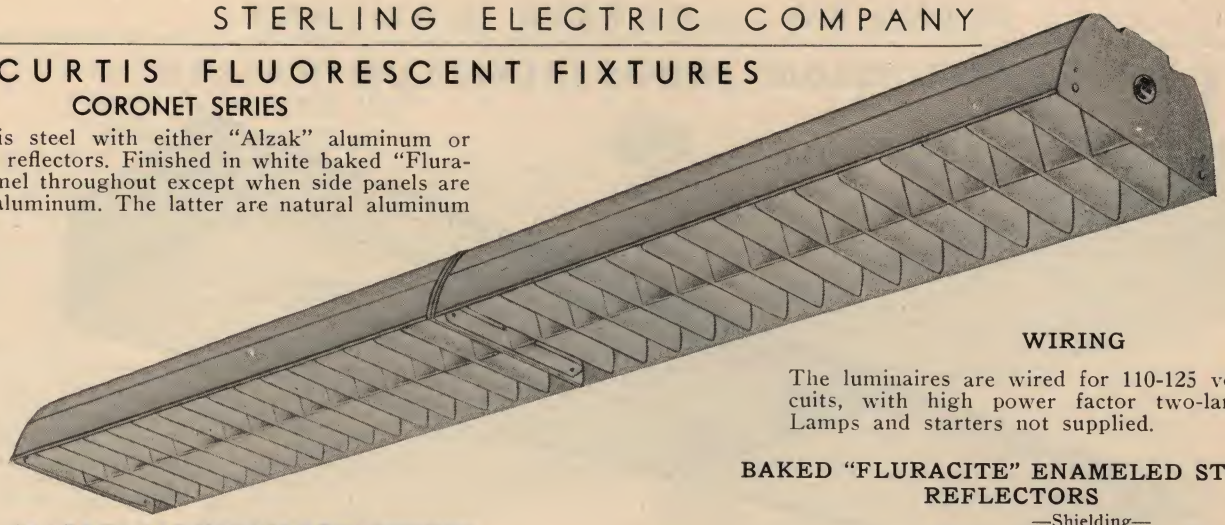
No.	Description	List Pr. Ea.
82	Single circuit switch	$27.25
82T	Two-way circuit switch	28.15
82CP*	Single circuit switch—10' cord and plug	30.50
82TCP*	Two-way circuit switch—10' cord and plug	31.50

* Does not bear Underwriters' label.

CURTIS FLUORESCENT FIXTURES

CORONET SERIES

Coronet is steel with either "Alzak" aluminum or steel side reflectors. Finished in white baked "Fluracite" enamel throughout except when side panels are "Alzak" aluminum. The latter are natural aluminum color.



WIRING

The luminaires are wired for 110-125 volt A.C. circuits, with high power factor two-lamp ballasts. Lamps and starters not supplied.

"ALZAK" ALUMINUM REFLECTORS

No.	Lgth.	Width	Depth	—Shielding— Cross-Wise	—Shielding— Length-Wise	Std. Pkg.	Wgt. Lbs.	List* Pr. Ea.
Eight Foot—For Two 72W, T-12, 96-Inch Slimline Lamps								
8025	96 3/16"	13 3/8"	5 7/8"	40°	25°	1	49	$61.70
8040	96 3/16"	13 3/8"	5 7/8"	40°	40°	1	53	65.00
Eight Foot—For Four 40W, T-12, 48-Inch Medium Bi-Pin Starter-Type Lamps								
8028**	96 3/16"	13 1/8"	5 7/8"	40°	25°	1	52	56.70
8048**	96 3/16"	13 1/8"	5 7/8"	40°	40°	1	56	60.00
Five-Foot—For Two 40W, T-17, 60-Inch Mogul Base Bi-Pin Low Brightness Lamps								
8024	60 3/16"	13 1/8"	5 7/8"	40°	25°	1	33	40.40
8042	60 3/16"	13 1/8"	5 7/8"	40°	5°	1	30	38.75
8044	60 3/16"	13 1/8"	5 7/8"	40°	40°	1	36	42.50
Five Foot—For Two 85W, T-17, 60-Inch Mogul Base								
8021	60 3/16"	13 1/8"	5 7/8"	40°	25°	1	37	45.85
8041	60 3/16"	13 1/8"	5 7/8"	40°	40°	1	40	47.95
Four Foot—For Two 30W, T-12, 48-Inch Slimline Lamps								
8023	48 3/16"	13 1/8"	5 7/8"	40°	25°	1	28	33.35
8043	48 3/16"	13 1/8"	5 7/8"	40°	40°	1	30	35.00
Four Foot—For Two, 40W, T-12, 48-Inch Medium Base Bi-Pin Starter-Type Lamps								
8027**	48 3/16"	13 1/8"	5 7/8"	40°	25°	1	24	28.75
8047**	48 3/16"	13 1/8"	5 7/8"	40°	40°	1	27	30.40
Four Foot Units—For Four 38-W, T-12, 48" Slimline Lamps (Parallel)								
8083	48 3/16"	16 1/2	5 7/8"	40°	40°	1	42	66.85
Eight Foot Units—For Four 74W, T-12, 96" Slimline Lamps (Parallel)								
8080	96 3/16"	16 1/2"	5 7/8"	40°	40°	1	64	115.85

* Lamps extra.
** For rapid start ballasts order No. 8028-R—8048-R or 8027-R—8047-R.

BAKED "FLURACITE" ENAMELED STEEL REFLECTORS

No.	Lgth.	Width	Depth	—Shielding— Cross-Wise	—Shielding— Length-Wise	Std. Pkg.	Wgt. Lbs.	List* Pr. Ea.
Eight-Foot—For Two 72W, T-12, 96-Inch Slimline Lamps								
3025	96 3/16"	13 1/8"	5 7/8"	40°	25°	1	54	$58.35
3040	96 3/16"	13 1/8"	5 7/8"	40°	40°	1	58	61.70
Eight Foot—For Four 40W, T-12, 48-Inch Medium Base Bi-Pin Starter-Type Lamps								
3028**	96 3/16"	13 1/8"	5 7/8"	40°	25°	1	60	53.35
3048**	96 3/16"	13 1/8"	5 7/8"	40°	40°	1	64	56.70
Five Foot—For Two 40W, T-17, 60-Inch Mogul Base Bi-Pin Low Brightness Lamps								
3024	60 3/16"	13 1/8"	5 7/8"	40°	25°	1	37	38.35
3042	60 3/16"	13 1/8"	5 7/8"	40°	5°	1	34	36.70
3044	60 3/16"	13 1/8"	5 7/8"	40°	40°	1	40	40.40
Five Foot—For Two 85W, T-17, 60-Inch Mogul Base Bi-Pin Starter-Type Lamps								
3021	60 3/16"	13 1/8"	5 7/8"	40°	25°	1	41	43.75
3041	60 3/16"	13 1/8"	5 7/8"	40°	40°	1	44	45.85
Four Foot—For Two 36W, T-12, 48-Inch Slimline Lamps								
3023	48 3/16"	13 1/8"	5 7/8"	40°	25°	1	31	31.70
3043	48 3/16"	13 1/8"	5 7/8"	40°	40°	1	33	33.35
Four Foot—For Two 40W, T-12, 48-Inch Medium Base Bi-Pin Starter-Type Lamps								
3027**	48 3/16"	13 1/8"	5 7/8"	40°	25°	1	27	27.10
3047**	48 3/16"	13 1/8"	5 7/8"	40°	40°	1	29	28.75
Four Foot Units—For Four 38-W, T-12, 48" Slimline Lamps (Parallel)								
3083	48 3/16"	16 1/2	5 7/8"	40°	40°	1	45	62.10
Eight Foot Units—For Four 74W, T-12, 96" Slimline Lamps (Parallel)								
3080	96 3/16"	16 1/2"	5 7/8"	40°	40°	1	70	112.10

* Lamps extra.
** For rapid start ballasts order No. 3028-R—3048-R or 3027-R—3047-R.

IN-LINE DOWNLIGHTS*

WHITE STEEL PANELS

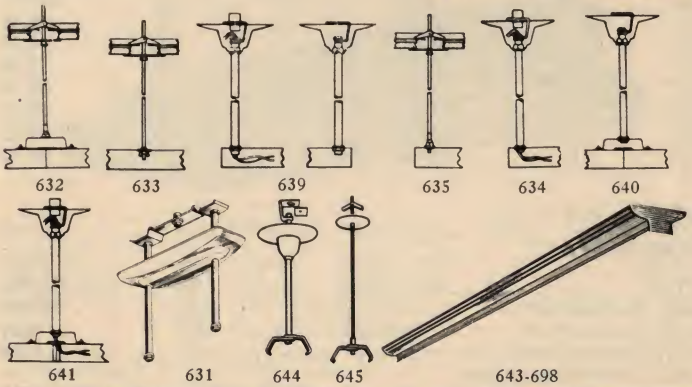
No.	Lgth.	Width	Depth	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
2243	8 5/8"	13 1/8"	5 7/8"	1	8	$18.15

ALZAK ALUMINUM PANELS

No.	Lgth.	Width	Depth	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
2242	8 5/8"	13 1/8"	5 7/8"	1	7	$18.75

* Use one par 38 side prong. 150 watt projector or lamp. Lamp not supplied.

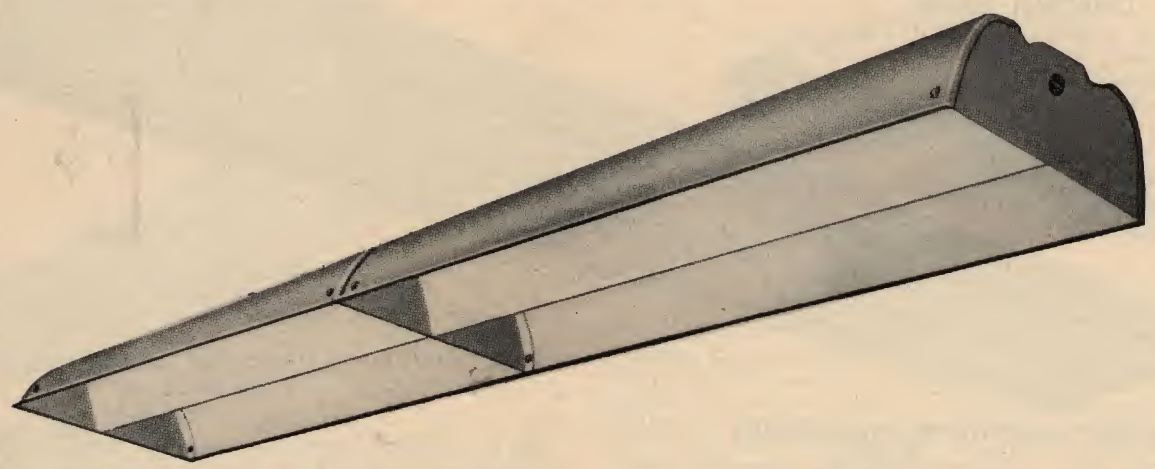
HANGERS* AND MOUNTING CANOPIES



No.	Description	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
628	Two stem hanger	10	37	$4.35
631	Two stem hanger	20	50	3.35
632	Threaded rod intermediate with external adj. nut	20	9	1.25
633	Threaded rod intermediate hanger with wing nut	20	6	.90
634	Single-stem wire entrance	10	7	1.58
635	Threaded rod intermediate hanger with external adj. nut	20	6	.98
639	Single-stem wire set	5	6	2.75
640	Single-stem intermediate hanger with connector cap	10	8	1.90
641	Single-stem wire entrance with connector cap	10	9	2.00
643	Close ceiling canopy for 4' units	1	7	6.70
644	"Tong" hanger—½" O.D. stem	10	9	1.85
645	"Tong" hanger—3/8" threaded rod	..	..	...
699	Close ceiling canopy for 5' units	1	8	7.20
6436	Wire entrance fittings	1	1	.70

* For 12" suspension. Also available for 18", 24", 36" and 48" suspension. When ordering suffix No. with desired length.

CURTIS "6000" INDUSTRIAL LUMINAIRES



6000 INDUSTRIAL offers sight-saving "Eye-Comfort" for Industrial locations. They are direct-indirect units of extremely efficient new design. An indirect component of 25% of the light output illuminates the ceiling. The 75% direct component is provided with crosswise shielding of 35°.

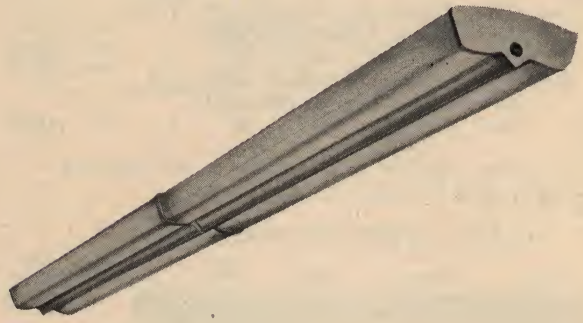
Save money and time—install a Curtis "6000 Industrial." "Tong" Hangers are furnished which allow unlimited flexibility of placement—by-passing of obstructions is easily effected.

Low-cost efficient maintenance is provided by readily removable side panels. No horizontal diffusing or reflecting surfaces to act as dust catchers.

Construction:
Wiring channel, end plates and longitudinal V-bar reflector are of heavy gauge steel finished baked white "Fluracite" enamel. Available with either "Alzak" aluminum, porcelain enamel or white "Fluracite" side reflectors.

—Catalog Number—			No. and Type of	Shielding		—Dimensions—	
Alzak	Porcelain	Fluracite	Lamps	Crosswise	Length	Width	Depth
6002	6022	6012	2, 72W, T-12, 96″ Slimline	35°	96⅛″	12⅝″	5⅛″
6003	6023	6013	2, 40W, T-12, 48″ I.S. Bi-Pin	35°	48⅛″	12⅝″	5⅛″
6004	6024	6014	2, 40W, T-12, 48″ Slimline	35°	48⅛″	12⅝″	5⅛″
6005	6025	6015	2, 85W, T-12, 60″ Starter Type	35°	60⅛″	12⅝″	5⅛″
6007	6027	6017	2, 40W, T-12, 48″ Starter Type	35°	48⅛″	12⅝″	5⅛″
6008	6028	6018	4, 40W, T-12, 96″ Starter Type	35°	96⅛″	12⅝″	5⅛″
6009	6029	6019	4, 40W, T-12, 96″ I.S.	35°	96⅛″	12⅝″	5⅛″
6010	6030	6020	4, 85W, T-12, 60″ Starter Type	35°	120⅛″	12⅝″	5⅛″

CURTIS "PRINCESS" LUMINOUS INDIRECT LUMINAIRES



The new luminous indirect "Princess" Series has Curtis quality construction and workmanship throughout . . . with wire channel constructed of heavy gauge steel finished baked white "Fluracite" enamel. Side panels are fine ribbed durable polystyrene plastic to softly diffuse the light and provide low-brightness ratios between the ceiling and luminaire. Curtis "Princess" Series luminaires are available to accommodate all 4′, 5′ and 8′ fluorescent lamps. Use of Curtis "Tong Hangers" allows unlimited flexibility in placement of hangers and keep installation cost at a minimum.

No.	No. and Type of Lamps	—Dimensions— "L"	"D"	"W"	Std. Pkg.	Shpg. Wgt. Lbs.	List Pr. Ea.
5002	Two, 96″, T-12, 72W Slimline	96 3/16″	4¼″	10⅝″	1	44	**$55.00**
5004	Two, 48″, T-12, 36W Slimline	48 3/16″	4¼″	10⅝″	1	23	**30.85**
5005	Two, 60″, T-17, 85W Bi-Pin Starter Type	60 3/16″	4¼″	10⅝″	1	28	**43.35**
5007	Two, 48″, T-12, 40W Bi-Pin Starter Type	48 3/16″	4¼″	10⅝″	1	22	**25.00**
5007-R	Two, 48″, T-12, 40W Bi-Pin Rapid Start	48 3/16″	4¼″	10⅝″	1	22	**26.70**
5008*	Four, 48″, T-12, 40W Bi-Pin Starter Type	48 3/16″	4¼″	10⅝″	1	48	**48.35**
5008-R*	Four, 48″, T-12, 40W Bi-Pin Rapid Start	120 3/16″	4¼″	10⅝″	1	48	**51.75**
5010*	Four, 60″, T-17, 85W Bi-Pin Starter Type	120 3/16″	4¼″	10⅝″	1	57	**86.70**

* Two lamps parallel.

CURTIS HANGERS

For "Princess" and 6000 Series

No.			Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
644	Tong Hanger with ½″ O.D. Stem	For 12″ Suspension*	10	9	**$1.85**
645	Tong Hanger with 3/16″ Threaded Rod	For 12″ Suspension*	20	20	**1.35**
634	Single Stem Wire Entrance Hanger	For 12″ Suspension*	10	7	**1.58**

* Also available for 18″, 24″, 36″ and 48″ suspension. Use same catalog number but suffix with required length.

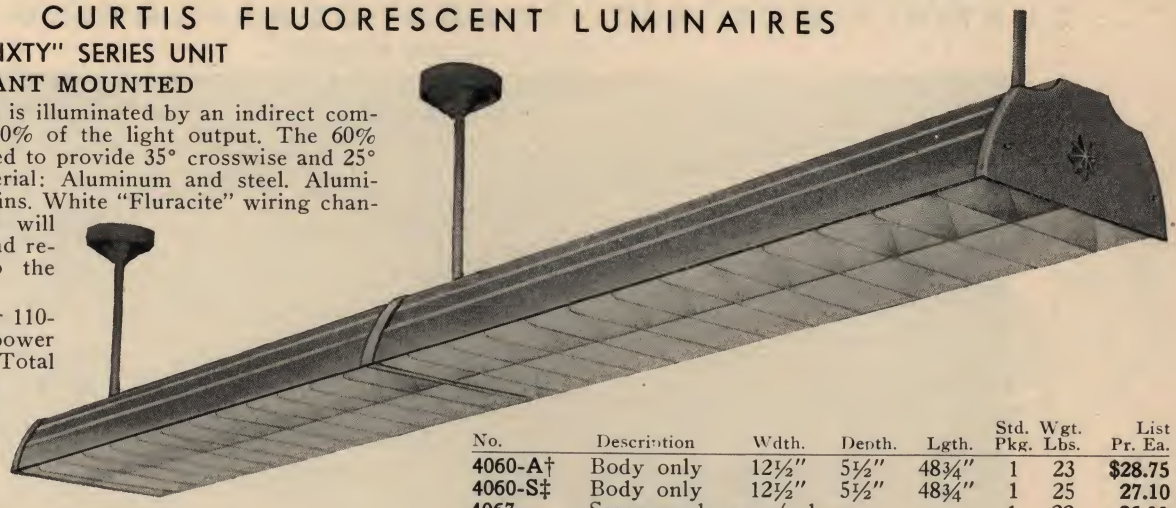
CURTIS FLUORESCENT LUMINAIRES

"FORTY-SIXTY" SERIES UNIT
PENDANT MOUNTED

Light Control: The ceiling is illuminated by an indirect component of approximately 40% of the light output. The 60% direct component is louvered to provide 35° crosswise and 25° lengthwise shielding. Material: Aluminum and steel. Aluminum reflectors and louver fins. White "Fluracite" wiring channel. Louver is hinged and will swing down for cleaning and relamping or for access to the wiring channel.

Wired: Furnished wired for 110-125 volt, A.C. with high power factor two-lamp ballast. Total watts, 95. Can be wired for other voltages and ballasts. Bears Underwriters' Laboratories label. Less lamps and starters.

For two 40-watt lamps.

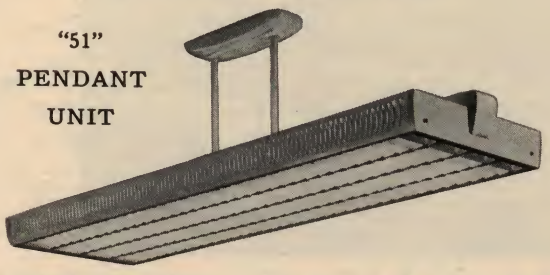


No.	Description	Wdth.	Depth.	Lgth.	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
4060-A†	Body only	12½"	5½"	48¾"	1	23	$28.75
4060-S‡	Body only	12½"	5½"	48¾"	1	25	27.10
4067	Same as above w/o louver				1	22	26.00

†Alzak aluminum louver fins.
‡Steel louver fins finished in baked white "Fluracite" enamel.

ANNIVERSARY LUMINAIRES

"51" PENDANT UNIT



Light Control: The "51" luminaire is of the general diffusing type with top completely open for better utilization of the indirect lighting component, is shielded 30 degrees lengthwise and crosswise.

Material and Finish:

51-CLH—Steel with plastic end cap. White "Fluracite" channel, louver and side panels; end plates and hanger light gray.

51-CLHQ—Same as 51-CLH except unit has a special bronze finish. Matching hangers also available.

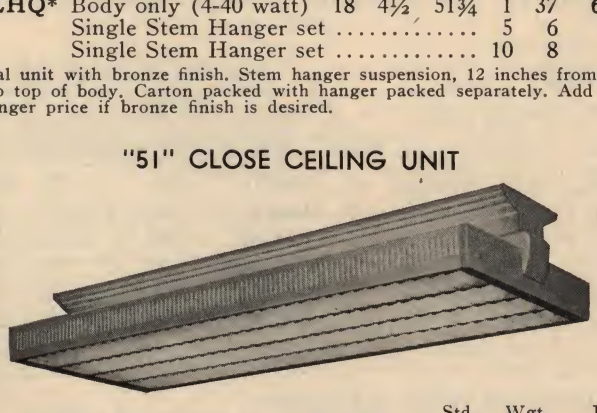
Construction: Louver hinges from either side or can be removed completely. Hanger permits easy installation.

Furnished wired for 110-125 volt A.C. with high power factor two-lamp ballasts. Total watts, 198. Can be wired with other voltages. Less lamps and starters.

No.	Description	Wdth. Ins.	Dpth. Ins.	Lgth. Ins.	Std. Pkg.	Wt. Lbs.	List Pr. Ea.
51-CLH	Body only (4-40 watt)	18	4½	51¾	1	37	$63.25
51-CLHQ*	Body only (4-40 watt)	18	4½	51¾	1	37	69.75
639	Single Stem Hanger set				5	6	2.75
640	Single Stem Hanger set				10	8	1.90

*Special unit with bronze finish. Stem hanger suspension, 12 inches from ceiling to top of body. Carton packed with hanger packed separately. Add 10% to hanger price if bronze finish is desired.

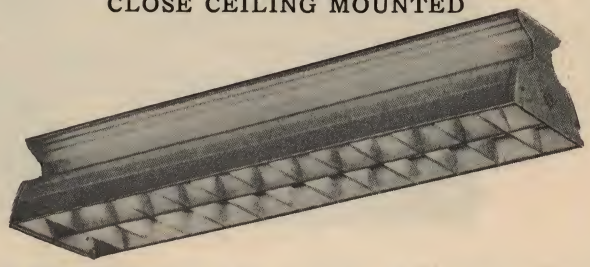
"51" CLOSE CEILING UNIT



No.	Lamps	Hangers	Description	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
51-CLH	4-40	None	Body only	1	37	$63.25
51-CLHQ*	4-40	None	Body only	1	37	69.75
695-Q*	Close-ceiling mtg. canopy			1	8	7.85
6436	Wire entrance equipment			1	1	.70

* These units have a special bronze finish. For matching bronze finish on Curtis hangers or No. 2239 (corner box for No. 53-A "wall-strip"), add 10 per cent to all present prices.

"FORTY-SIXTY" UNIT
CLOSE CEILING MOUNTED



Overall depth 8⅜". One wiring entrance, No. 6436, required for each individually mounted luminaire; and one for each circuit in continuous rows.

No.	Description	For Lamps	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
4060-A†	Body only	2/40	1	23	$28.75
4060-S‡	Body only	2/40	1	25	27.10
4067	Same as above w/o louver		1	22	26.10
643	Surface mounting canopy for all 4060 series luminaires		1	7	6.70
6436	Wiring entrance		1	1	.70

† Alzak aluminum louver fins.
‡ Steel louver fins finished in baked white "Fluracite" enamel.

No. 639 Basic Hanger for suspending all 4060 series luminaires in continuous lines, included with various combination units; consists of two separate stems with canopies and fittings. Wire entrance is made through one of 12" suspension stems.

No. 640 Extension Hanger for suspending all 4060 series luminaires in continuous lines, included with various combination units. Consists of a single stem with canopy and fittings and a connector cap used to bridge the point between two adjacent units.

No. 631 Twin Stem Hanger for all 4060 series luminaires. 12" suspension, included with various complete units. 7½" O.C. stems.

No. 643 Surface Mounting Canopy for mounting all 4060 series luminaires.

No. 6436 Wire Entrance Equipment. Order one No. 6436 for each wire entrance when using No. 643 surface mounting canopy.

Hangers

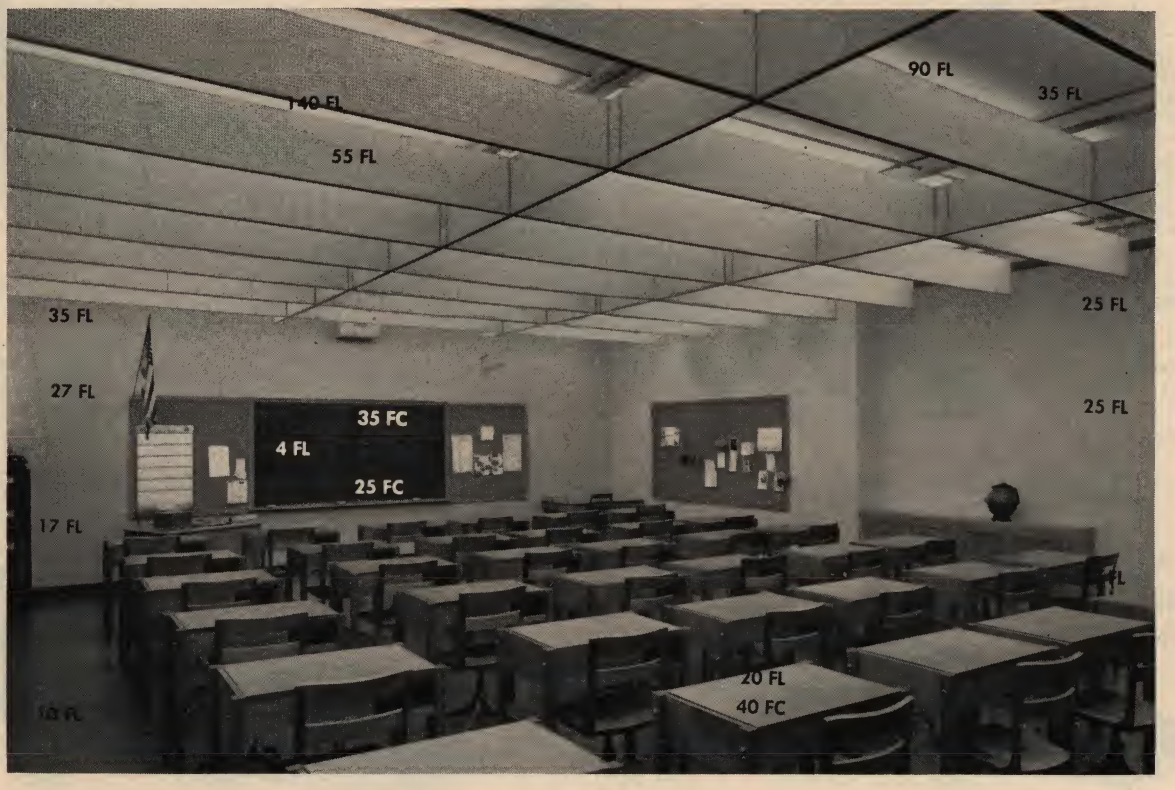
No.	Description	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
628	Twin-stem hanger (for 5') 21" O.C. stem	10	37	$4.35
639	Basic hanger set	5	6	2.75
640	Intermediate hanger	10	8	1.90
631	Twin-stem hanger	20	50	3.35
643	Surface mounting canopy for all 4060 series luminaires	1	7	6.70
6436	Wire entrance	1	1	.70

Stems available for 18, 24, 36 and 48-inch suspension.

The matching close ceiling unit for the pendant "51." Overall depth of this unit is 7½". One wiring entrance, No. 6436, required for each individually mounted luminaire.

For hangers, see page 207.

CURTIS LIGHT AND SOUND CONDITIONING SYSTEM



A new approach to lighting and sound conditioning is the results of years of research and development in the application of light and sound.

The first installation of a completely packaged, extendible wiring system (bearing Underwriters' Laboratories fixture label) with ladder type lamp arrangement and shielding panels was installed in a classroom in a Chicago school in 1949 by Curtis Lighting, Inc.

The system provides levels of quality illumination for true eye comfort, with effective acoustical treatment which eliminates excessive sound reflections and the annoyance which sound creates. Also blends well with all interiors and places special emphasis on low initial operation and maintenance cost.

The vertical panels constructed of quality acoustical material, flame retarding, high reflectance, white finish. Panels are positioned between the fluorescent lamps to provide recommended shielding and provide adequate sound conditioning. The light and sound conditioning system requires less acoustical material. The vertical position and spacing of the high sound absorption acoustical material result in a high noise reduction coefficient providing very effective sound treatment.

The electrical portion of the Curtis light and sound conditioning system is supplied completely wired with ballasts and lampholders and bears the Underwriters' Laboratories fixture label. All metal parts are finished in Bake White "Fluracite" enamel. Provides a minimum of 30 foot-candle average maintained quality illumination when operated at approximately half-brightness; 50 foot-candles or more when operated at normal brightness. The selection of low-brightness or normal brightness operation is determined by the recommended illumination level for the type of work being done. In either case the Curtis system provides a minimum of shadows and a minimum of reflected glare.

BASIC SECTIONS

Low Brightness	Wattage Low Brightness	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.	Description	Ceiling Area Covered	No. and Type of Lamps†	No. of Acoustical Panels	Normal Brightness	Wattage Normal Brightness	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
4000-16	840	1	455	**$523.10**	One Pair End Sections	16'x16'	16, T-12, 96" Slimline	10	**7000-16**	1440	1	455	**$546.45**
4000-8E	315	1	207	**249.90**	8' Extension Section	8'x16'	6, T-12, 96" Slimline	6	**7000-8E**	540	1	207	**258.25**
4000-6E	210	1	156	**176.60**	6' Extension Section	6'x16'	4, T-12, 96" Slimline	4	**7000-6E**	360	1	156	**183.25**
4001-16	420	1	270	**283.20**	One Pair Wing Sections	8'x16'	8, T-12, 96" Slimline	5	**7001-16**	720	1	270	**294.90**
4001-8E	161	1	136	**144.95**	8' Extension Wing Section	8'x 8'	3, T-12, 96" Slimline	3	**7001-8E**	283	1	136	**151.60**
4001-6E	105	1	105	**98.30**	6' Extension Wing Section	6'x 8'	2, T-12, 96" Slimline	2	**7001-6E**	180	1	105	**101.70**

†Also available for 48" and 72" lamps—lamps not supplied.

ACCESSORY ACOUSTICAL PANELS COMPLETE WITH HANGERS

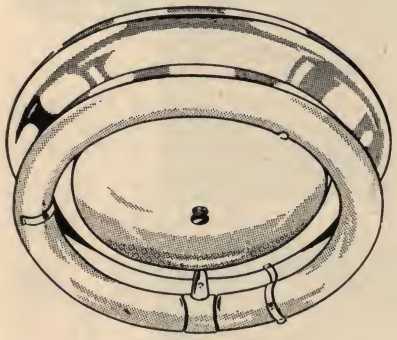
No.	Description	Std. Pkg.	Wgt. Lbs.	List Pr. Ea.
6454	1'x8' Panel—For Installation at Right Angles to Lamps—Suspended from Mogul Curtistrip	4	84	**$16.70**
6455	1'x8' Panel—For Installation Parallel to Lamps—Suspended from Small and Mogul Curtistrip	4	84	**16.70**
6456	1'x8' Panel—For Installation at Right Angles to Lamps—Suspended from Small Curtistrip	4	84	**16.70**
6457*	1' Extension Panel	6	18	**3.35**

*For use where 9' Acoustical Panels are desired.

MARKSTONE "FASHIONS IN FLUORESCENTS"

CIRCLINE INSTANT START

SINGLE LAMP STYLE



L500-IS

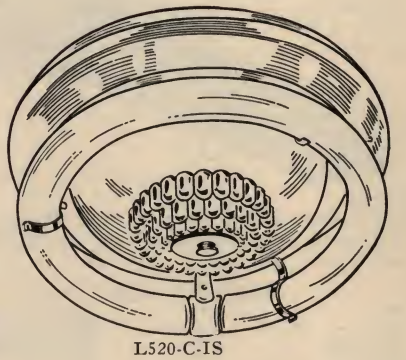
No flicker—no waiting—attractive simple design of universal appeal. Available for flush center mounting or with 5-inch adapter, cord and plug, 32-watt lamp, U.L. approval.

No. L500-W-IS—Flush center mounting, white porcelite enamel. Std. Pkg. 1, wgt., 7½ lbs. List price each (with lamp) **$9.20**

No. L500-C-IS—Same as above, chrome finish. List price each (with lamp) **10.00**

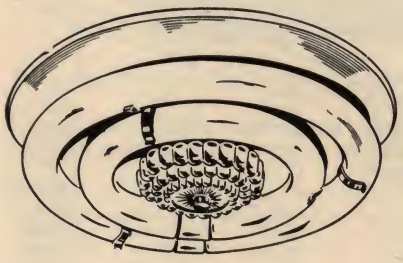
No. L520-W-IS—Same as No. L500-IS with crystal center ornament. List price each (with lamp)..... **9.75**

No. L520-C-IS—Same as No. L500-C-IS with crystal center ornament. List price each (with lamp)..... **10.55**



L520-C-IS

TWO LAMP STYLE



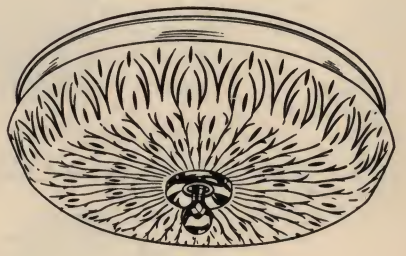
L850-IS

Concentrated illumination—one 12-inch, 32-watt lamp instant start and one 8-inch, 22-watt lamp regular start. Same as single circline but yields 70% more light. New beauty, more light, equipped for center lock-up. Wired for 60 cycle, 110-125 volt A.C. U.L. approved.

No. L850-W-IS—White porcelite enamel finish, crystal center ornament. Wght. 8½ lbs. List price each (with lamps) **$15.10**

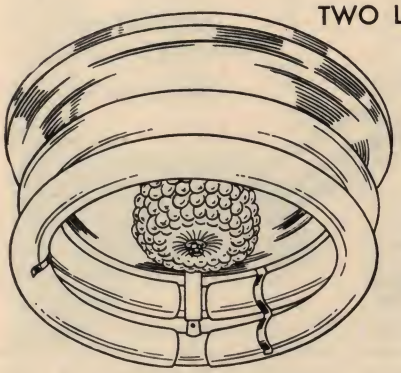
No. L850-C-IS—Same as above with crystal center ornament, chrome plate. List price each (with lamps).. **15.90**

No. L855-C-IS—Triple chrome plate finish, 13" glass bowl. Wght. 10¾ lbs. List price each (with lamps) **21.20**



L855-C-IS

TWO LAMP STYLE



L820

Two lamp circline fluorescent fixture that with its glare-free and shadowless light, coupled with its smart distinctive design will not only blend in with but enhance the beauty of your room surroundings. 2/32 w. regular start, crystal trim, with lamps.

No. L820-W-IS—List price each (with lamps)..**$17.10**

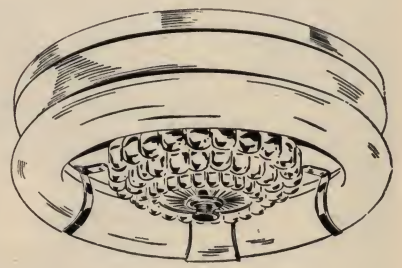
No. L820-C-IS — Chrome. List price each (with lamps) **17.90**

SINGLE LAMP STYLE

Ideal for home, hotel, hospital corridors, roomettes, bathrooms, basements, playrooms, theatres, garages and countless other places where soft, glare-free lighting is required. Unique when used as a wall bracket. Shp. Wght. 4 lbs.

No. L420-W-IS — White porcelite enamel finish. List price each (with lamps) **$8.95**

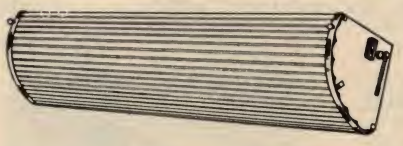
No. L420-C-IS—Same as above. Chrome plate. List price each (with lamps) **9.70**



L420-IS 22-Watt

MARKSTONE UNIVERSALITE

2 Lamps



Fills an unlimited variety of household and commercial needs . . . for wall hanging, under cabinets and ledges, in corners, over tables, benches, etc. Can be hung vertically or horizontally, individually or in groups—furnished either with 6 ft. cord and plug (U.L.) for pin-up use (with special slots for easy hanging), or without cord for permanent mounting.

100% FULL LENGTH LIGHTING SURFACE with lifetime polystyrene super-diffusing shield for perfect nonglare, shadowless illumination. OFFERS TWO EXTRA UTILITY FEATURES—(1) handy on and off pull chain switch and (2) convenience outlet for electrical appliances. Easy to clean nonstatic shield.

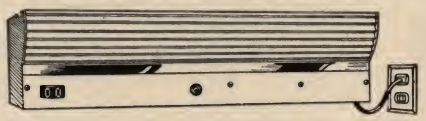
Two Models—Furnished for permanent mounting (U.L. approved) . . . or with U.L. approved 6 ft. cord and plug.

For use on 115-120 Volt, 60 Cycle, A.C.

No.		Watts	Lgth.	Wdt.	Dpt.	Wgt. Lbs.	List Price Each* Perm. Mtg.	No.	Plug & Cord
3214	2 Lt.	14	15¼"	4¾"	4¾"	5	$11.00	PC3214	$11.40
3215	2 Lt.	15	18¼"	4¾"	4¾"	5½	11.00	PC3215	11.40
3220	2 Lt.	20	24¼"	4¾"	4¾"	6	12.00	PC3220	12.40

* Price without lamps.

KABNIT-LITE—1-LAMP



Hung individually or in series, it provides wonderful, glare-free illumination for all kitchen work areas, including sink and range. Also for basement workbench. Attractive and useful in barber shops, filling stations and other service businesses where a handsome mirror or rest room light that uses little current is required. Non-static plastic shield stays clean, won't collect dirt and dust. Easily removed to change bulbs.

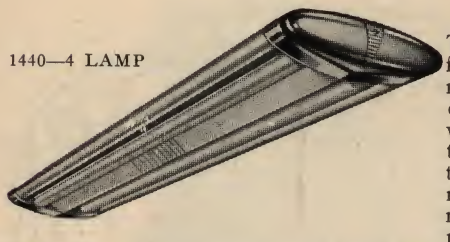
Shipped complete with **six-foot U.L.** cord that is easily removed for permanent hanging; knockout in back. Finished in chip-proof white baked enamel.

Lamp Used	Lgth.	Ship. Wgt.	White No.	List Pr. Each*	Chrome No.	List Pr. Each*
15-Wt.	18½"	4 lbs.	KAB15	$8.30	CKAB15	$10.60
20-Wt.	24½"	4½ lbs.	KAB20	9.45	CKAB20	11.70

* Without lamps.

MARKSTONE "FASHIONS IN FLUORESCENTS"

THE DRAKE—2 LAMP, 4 LAMP


1440—4 LAMP

Two lamp, designed for living in the modern manner, to enhance charm and distinction wherever lighting fixtures can be used. Features the gracefully rounded, rich beauty of modern styling which makes it ideal for kitchen, bedroom, hall, any room in the home, office, etc. Scientifically designed and engineered for maximum lighting efficiency. Flush or surface mounting.

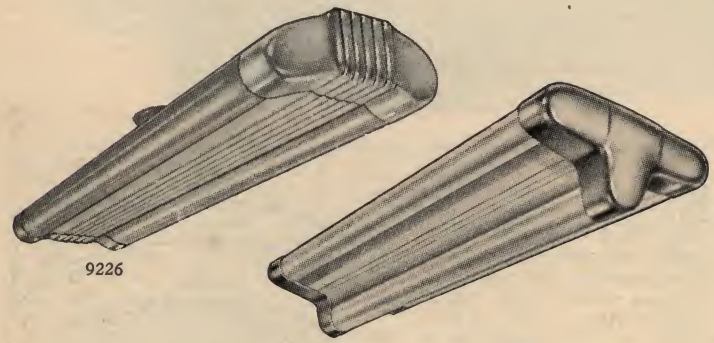
No.	Watt	Lgth.	Wgt.	List Price Each*
FL1220	2/20	26″	8¼ lbs.	**$11.00**
FL1240	2/40	50″	18½ lbs.	**21.00**

Four lamp for larger rooms and maximum illumination without glare. The exclusive design prevents annoying ceiling shadow. Use wherever decorative light is wanted. Available for end-to-end hanging if desired. Flush or surface mounting.

FL1440	4/40	51″	25½ lbs.	**33.20**

* Lamp extra.

VALUE-LITE—2 LAMP, 4 LAMP


9226

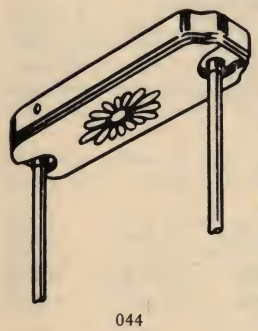
9320

Beautifully designed and carefully finished 2 light fluorescent. It's the world's best fixture buy today! The practical, common sense design is equally at home in any room. Every home is a natural market for this sensational new Value-Lite fixture.

Finished all over in chip-proof white porcelic enamel that wipes clean in an instant. Designed in perfect symmetry, with a gracefully embossed reflector between the lamps. All sockets are concealed—there's nothing to trap light! With 6″ fitter and hanger bar.

No.	Watt	Description	Lgth.	Wgt. Lbs.	List Price Each
9226	2/20	White finished ends	24½″	6	**$ 8.35**
9320	3/20	White finished ends	28 ″	10	**10.95**

24" STEM AND CANOPY


044

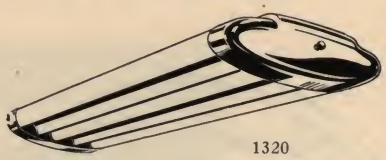
No. 044 set to be used to convert basic 4 lamp 48″ fixtures suspended type. Silver color. List price each **$4.50**
Extra length stems, doubled stems pr. ft. (2 stem) List **1.35**
No. 041—For use with 2 or 3 lamp up to and including 25 watt sizes. List price each **2.00**
Extra length. Single stem. List price each, per ft. **.65**


041

THE WALDORF

3 Lamp—1320

4 Lamp—9420W

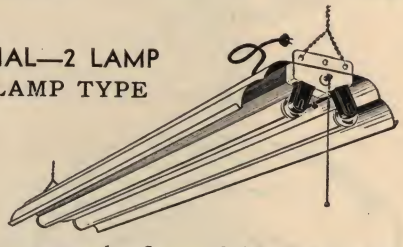

1320

A real beauty and eye-appeal plus greater lighting efficiency. Never before has such grace and charm in smooth flowing lines been seen in fluorescent lighting. Designed for use in any room in the home. Flush or surface mounting.

No.	Watt	Description	Lgth.	Wgt. Lbs.	List Price Each*
FL1320	3/20	Flush Chrome Finished ends	26″	9½ lbs.	**$15.45**
9420-W	4/20	White end caps	28″	7 lbs.	**15.00**
9420-C	4/20	Chrome end caps	28″	7 lbs.	**16.20**

* Lamp extra.

INDUSTRIAL—2 LAMP OPEN LAMP TYPE



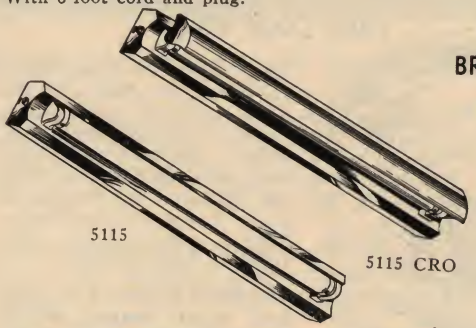
Unusual design. Full 13½″ heavy steel reflector finished in gleaming white porcelite enamel. Exterior cheerful green. Remote starter. 4″ deep. Extremely efficient.

No.	Watt	Wgt.	List Price Each*
7020	2/20	9 lbs.	**$9.45**
7020C	2/20	10 lbs.	**9.90**

* Lamp extra.
With 6 foot cord and plug.

MARKSTONE BRACKET LIGHTS

Chrome Finish

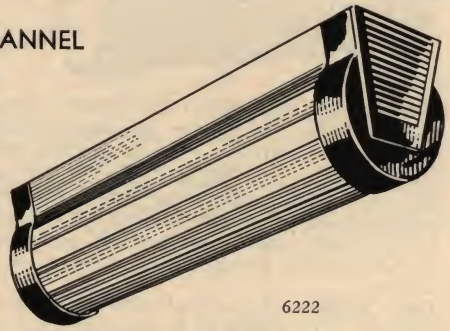

5115

5115 CRO

Drab surroundings take on new life—beautifully finished in lustrous chrome. Special contoured reflector shield available with each unit, permits easy focusing. Available with convenience outlet, handy for numerous electrical appliances.

No.	Watt	Description	List Price Each
5115-C	15	With switch	**$4.90**
5115-CO	15	With switch, convenience outlet	**5.30**
5115-CRO	15	With switch, convenience outlet and reflector	**7.05**

MARKSTONE CHANNEL 2 LAMP


6222

Superb quality and performance. For use anywhere where better lighting is required. The last word in beauty with greatest economy both on original installation and maintenance Strongly built fluted shield gives smoothest, all-over, scientifically-diffused, no glare light—insures maximum efficiency by keeping out dirt and dust.

No.	Watt	Size	Wgt.	List Price Each
LPF-6222	2/20	24¼″x5¼″x4¾″	7¼ lbs.	**$13.70**
HPF-6242	2/40	48¼″x5¼″x4¾″	12½ lbs.	**29.60**
O-6242-RS	2/40	Rapid Start	12½ lbs.	**32.45**

ECLIPSE RECESSED FLUORESCENT FIXTURES

CHROME TRIM—RIBBED GLASS

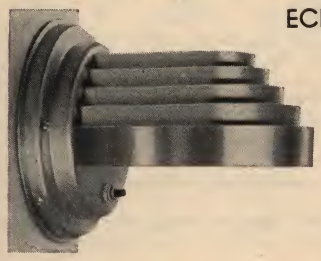


CHROME TRIM—WHITE LOUVER



With Glass	With Louvers	Lts.	Box Size	List Price Each Wired LPF	Wired HPF
G-8115	X-8115	1-15	4½x18x5⅛	$13.80	$20.60
G-8120	X-8120	1-20	4½x24x5⅛	14.40	21.40
G-8130	X-8130	1-30	4½x36x5⅛	20.60	25.00
G-8140	X-8140	1-40	4½x48x5⅛	23.60	28.40
G-8215	X-8215	2-15	7x18x5	17.60	25.60
G-8220	X-8220	2-20	7x24x5	18.80	26.40
G-8230	X-8230	2-30	7x36x5	....	35.00
G-8240	X-8240	2-40	7x48x5	....	37.00
G-8320	X-8320	3-20	8x24x5½	23.60	37.00
G-8330	X-8330	3-30	8x36x5½	....	37.00
G-8340	X-8340	3-40	8x48x5½	....	46.20
G-8420	X-8420	4-20	12x24x5½	28.00	42.60
G-8430	X-8430	4-30	12x36x5½	....	56.00
G-8440	X-8440	4-40	12x48x5½	....	60.00

ECLIPSE "BOOTHLITE"



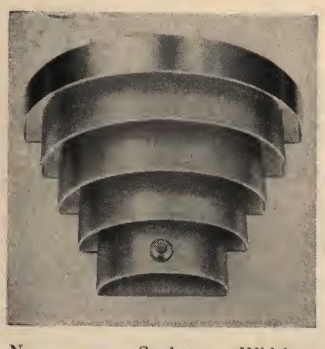
Throws Light Out
Attractive—Effective—Unusual

Throws the light out over a booth, yet the lamp is shielded from view. It can be used over electric ranges, kitchen sinks, breakfast nooks, bedrooms, and many other places.

Finishes: Chrome and aluminum.

No.	Dia. Base	Lgth.	Width Louver	Dept. Only	List Price Each
3000	6″	7″	4½″	3″	$4.50

Receptacle installed 1.01
Additional charge for ivory and gold.



ECLIPSE LOUVER BRACKETS

For theatres, auditoriums, restaurants, lodge halls, corridors, foyers and residences. Most effective in white light—beautiful effects obtained where changes of color or light are wanted. Sockets can be wired on separate circuits. Many different combinations may be obtained. Standard finish: (top louver polished chrome, balance aluminum) gold tint and ivory and gold.

No.	Socket	Width	Hgt.	Ext.	List Price Each
3031-A	1	7″	5″	3½″	$2.96
3131-3A	3	7″	13″	3¾″	9.48
3061-A	1	9¼″	6″	4¾″	3.78
3062-A	2	9¼″	6″	4¾″	4.08
3101-A	1	11″	7″	5½″	5.35
3102-A	2	11″	7″	5½″	5.76
3103-A	3	12″	8″	6″	5.95
3120-A	3	12″	20″	6″	13.50

Single pole canopy switch ..... .60

ECLIPSE MIRRORLITES



A one light for over mirrors, bulletin boards, bank cages, fitting rooms, etc. Equipped with pull switch right end.

Standard finish: Polished chrome.

No.	Watt	Lgth.	List Price Each L.P.F.	H.P.F.
M-1215	15	19″	$10.60	$17.00
M-1220	20	25″	12.00	18.00
Standard finish: lustre aluminum enamel.				
M-1230	30	37″	$15.00	$20.00
M-1240	40	49″	17.40	21.60

Other sprayed finishes available.

ECLIPSE FITTING—ROOM FIXTURES



A two lamp fixture used extensively in fitting rooms. Also adaptable to many other uses. Supplies both direct and indirect lighting.

M-22	Watt	Lgth.	Finish	Glass	List Price Each L.P.F.	H.P.F.
M-22	20	25″	White enamel pol. chrome ends	Alba-lite	$15.00	$23.00

M-403 3 light incandescent 17.60
End caps can be furnished in sprayed aluminum, statuary bronze or bank bronze without extra charge.

ECLIPSE WIRE GUARDS



GR Reflector—Deep



GD Gymnasium L Piece
GH15 Gymnasium Hinged

Eclipse Reflector Guards—Deep

Fit standard metal reflectors where lamp extends below. Grips edge of reflector with one clamping screw.

No.	Deep Guard Fits Refl.	Depth	List Price Each	No.	Flat Guard Fits Refl.	List Price Each
GR-12	12″	3¾″	$2.24	GF-12	12″	$1.76
GR-14	14″	4½″	2.74	GF-14	14″	1.92
GR-16	16″	5″	3.18	GF-16	16″	2.52
GR-18	18″	5½″	3.74	GF-18	18″	2.94
GR-20	20″	6¼″	4.50	GF-20	20″	3.48

Eclipse Gymnasium Guards

One piece—substantial tabs for screwing into ceiling. Hinged type—lower section hinged at three points. Opened from any side. Swinging section serves as a basket for lamp. Safety pin clips easily opened with one hand.

One Piece No.	Fits Unit	Dia.	Dpt.	List Price Each	Hinged No.	Fits Unit	Top Dia.	Dpt.	List Price Each
GO-14	10″	14″	13″	$3.52	GH-15	10″	15″	13″	$5.60
GO-16	12″	16″	14″	4.00	GH-17	12″	17″	14″	6.10
GO-18	14″	18″	15″	4.50	GH-19	14″	19″	16″	6.40
GO-20	16″	20″	16″	4.80	GH-21	16″	21″	17″	7.20
GO-22	18″	22″	18″	5.14	GH-23	18″	23″	18″	8.40

GENERAL ELECTRIC BALLASTS FOR FLUORESCENT LAMPS

BALLASTS FOR GENERAL LINE LAMPS—60 CYCLES

Lamp Size	Nominal Lamp Watts	Ballast No.	Ballast No.	List Pr. Each GO-64	Std. Pkg.	Ship. Wt. Lb.
Single-Lamp Ballasts—Uncorrected-Power-Factor						
4-6-8	110-125	89G402	.....	★$0.80	20	16
13	110-125	89G413	.....	2.50	10	26
★14-15-20	★110-125	★89G381	.....	★.62	★50	★35
14	110-125	58G862	.....	.65	20	17
15	110-125	58G670	.....	.65	20	17
20	110-125	58G671	.....	.65	20	17
★14-15-20	110-125	89G320#*	.....	2.40	10	29
25	110-125	59G908	.....	1.35	10	16
30	110-125	89G304	.....	1.70	10	26
40	110-125	89G307	.....	1.70	10	26
40	199-216	58G676	.....	2.20	10	15
40	220-250	58G675	.....	2.20	10	15
High-Power-Factor						
13	110-125	89G414	.....	$5.50	10	35
14	110-125	58G864	.....	3.85	10	18
15	110-125	58G640	.....	3.85	10	21
20	110-125	58G641	.....	3.85	10	21
30	110-125	89G344	.....	4.10	10	38
40	110-125	89G347	.....	4.10	10	38
40	199-216	★89G311	.....	5.00	10	★33
40	220-250	★89G310	.....	5.00	10	★33
40	240-280	58G925	.....	6.00	10	62
85/100§	110-125	58G628	.....	11.00	4	67½
Direct-Current						
6-8-14-15-20	110-125	58G690	.....	$1.10	20	18
30-32-40	220-250	58G690	.....	1.10	20	18
Tulamp and 3-Lamp Ballasts						
High-Power-Factor, Standard Cross-Section						
(2) 40	110-125	58G983	59G483	$5.50	10	65
(3) 40	110-125	59G276	59G487	9.90	6	66
(3) 40	199-216	59G277	.....	11.00	6	60
(3) 40	220-250	59G278	.....	11.00	6	64
(2) 85/100§	110-125	58G696	59G496	14.25	4	63
(2) 85/100§	220-250	58G698	.....	16.50	4	62
(2) 85/100§	240-280	58G923	.....	16.50	4	67
High-Power-Factor, Small Cross-Section						
(2) 15	110-125	58G678	.....	$5.20	10	38
(2) 20	110-125	58G679	.....	5.20	10	40
(2) 30	110-125	89G340	.....	6.00	10	65
(2) 40	110-125	89G343	.....	6.00	10	65
(2) 40	199-216	89G336	.....	7.15	10	60
(2) 40	220-250	89G345	.....	6.00	10	70
(2) 40	240-280	89G366	.....	7.15	10	70
Multiple-Lamp Ballasts—Uncorrected-Power-Factor						
(2) 14	110-125	58G914	.....	$1.30	10	16
(2) 15	110-125	58G691	.....	1.30	10	16
(2) 20	110-125	58G692	.....	1.30	10	16
(2) 14-15-20	110-125	×89G331#*	.....	3.00	10	36
(2) 25	110-125	59G909	.....	2.75	10	31
(3) 25	110-125	59G910	.....	4.10	10	46
High-Power-Factor						
(4) 85	240-280	59G265	.....	$15.40	4	70

60-CYCLE, 110-125 VOLTS, HIGH-POWER-FACTOR

Slimline—Leads-out-End

Lamp Size	Nominal Lamp Watts	Lamp Current in Amps.	Ballast No.	List Pr. Each GO-64	Std. Pkg.	Ship. Wt. Lb.
42T6	17.5		59G740	$ 9.35	10	62
42T6	(2) 17.5	0.120	59G741	11.00	6	50
42T6	25		59G742	9.90	10	68
42T6	(2) 25	.200	59G743	11.55	6	53
42T6	32		59G744	12.00	10	70
42T6	(2) 32	.300	59G745	14.85	6	68
48T12	38.5	.430	89G363	10.45	6	55
48T12	(2) 38.5	.430	59G373	11.00	6	71
48T12	(2) 38.5	.430	59G383*	11.00	6	71
48T12	(2) 38.5	.430	89G400§	7.85	6	51
64T6	25.5		59G770	9.35	10	68
64T6	(2) 25.5	.120	59G771	11.00	6	53
64T6	37		89G382	10.45	10	68
64T6	(2) 37	.200	59G773	12.00	6	64
64T6	48		59G774	13.20	6	55
64T6	(2) 48	.300	59G775	15.40	4	58
72T8	24		59G770	9.35	10	68
72T8	(2) 24	.120	59G771	11.00	6	53
72T8	37.5		89G382	10.45	10	68
72T8	(2) 37.5	.200	59G773	12.00	6	64
72T8	48.5		59G774	13.20	6	55
72T8	(2) 48.5	.300	59G775	15.40	4	58
72T12	57		59G948	13.20	4	46
72T12	(2) 57	.430	59G949	15.40	4	67
96T8	31.5		59G790	10.15	10	69
96T8	(2) 31.5	.120	89G391	12.00	6	58
96T8	49		59G792	11.00	6	54
96T8	(2) 49	.200	59G793	12.70	6	69
96T8	65		59G794	13.20	6	65
96T8	(2) 65	.300	59G795	15.95	4	72

BALLASTS FOR CIRCLINE LAMPS—60-CY.—110-125 V.

Lamp Diameter in In.	Nominal Lamp Watts	Ballast No.	Type Case	List Price Each GO-64	Std. Pkg.	Ship. Wt. Lbs.
High-Power-Factor						
12	32	59G425	Circular	$6.00	10	56
12-8¼	32-22	59G429	Circular	7.70	10	72
12-8¼	32-22	59G443	Rectangular	7.70	10	69
8¼	22	59G428	Rectangular	4.65	10	22
Uncorrected-Power-Factor						
12	32	59G420	Circular	$3.00	10	41
12	32	89G300*	Rectangular	1.65	10	26
12	32	89G332*	#Rectangular	2.40	10	29
8¼	22	59G419	Rectangular	1.00	20	24
8¼	22	89G322#*	Rectangular	2.40	10	29
12-8¼	32-22	×89G333#*	Rectangular	3.50	10	36
Junction Box O		59G418		.30	50	23

FOR SUPPRESSION OF RADIO INTERFERENCE

Filter, 50/60 Cycles

Circuit Voltage	Ballast No.	List Price Each GO-64	Std. Pkg.	Ship. Wt. Lbs.
Max 250	89G635	$2.75	20	16

BALLASTS FOR GERMICIDAL LAMPS

Lamp Size	Nominal Lamp Watts	Circuit Voltage	Ballast No.	List Price Each GO-64	Std. Pkg.	Ship. Wt. Lbs.
OZ4S11	4‡	110-125	★89G418	★$0.85	★50	★43
U-T4	4	110-125	58G827	1.40	20	24
U-T4	4	110-125	58G828◈	1.90	20	24
12T5	8	110-125	58G649	1.10	20	16
18T8	15	110-125	58G670	.65	20	17
36T8	(2)30□	110-125	89G340	6.00	10	65
36T6†	16	110-125	59G740	9.35	10	62
36T6†	(2)16□	110-125	59G741	11.00	6	50
36T6†	23	110-125	59G742	9.90	10	68
36T6†	(2)23□	110-125	59G743	11.55	6	53
36T6†	30	110-125	59G744	12.00	10	70
36T6†	(2)30□	110-125	59G745	14.85	6	68
36T6†	(2)36□	110-125	89G400	7.85	6	51

* This ballast not suitable for portable-lamp applications, as open circuit voltage is in excess of that permitted by the National Electrical Code for portable devices.

‡ OZ4S11 ozone producing lamp (not germicidal).

§ Same ballast can be used for either the 85- or 100-watt lamp.

□ If used in single-lamp application, use lead circuit.

◈ For use on 50-cycle circuits.

O For use with all ballasts of circular construction; includes bracket for mounting.

★# Trigger-start ballast. No external starter needed. For 15-watt operation, use T12 lamps only.

† Instant-starting lamp.

× Lamps wired in series. Failure of one causes other to go out.

BALLASTS FOR INSTANT-STARTING LAMPS

Slimline—Cont.

Lamp Size	Nominal Lamp Watts	Lamp Current in Amp.	Ballast No.	List Price Each GO-64	Std. Pkg.	Ship. Wt. Lbs.
96T12	73	.430	89G362	$13.20	6	80
	(2) 73	.430	59G464	17.50	4	76
	(2) 73	.430	89G396§‡	13.20	6	78
40-Watt Instant-Starting						
	40	.430	89G363	$10.45	6	55
48"T12	(2) 40	.430	59G373	11.00	6	71
or	(2) 40	.430	59G383*	11.00	6	71
60"T17	(2) 40	.430	89G400§	7.85	6	51
60-Cycle, 110-125 Volts—Outdoor†						
42T6	(2) 25	.200	59G743G14	$12.55	6	53
	(2) 32	.300	59G745G14	15.85	6	68
48T12	(2) 38.5	.430	59G373G14	12.00	6	71
64T6	(2) 37	.200	59G773G14	13.00	6	64
or						
72T8	(2) 48	.300	59G775G14	16.40	4	58
72T12	(2) 57	.430	59G949G14	16.40	4	67
96T12	(2) 73	.430	59G464G14	18.50	4	76

* Two-way-lead ballast.

† Non-weatherproof ballasts for use in outdoor signs. UL listed for operation where ambient temperatures may range down to —20 F.

‡ May also be used with 72T12 slimline lamps.

§ For operating two lamps in series. Not recommended for use in ambient temperatures below 50 F.

WIRE TABLES

ALLOWABLE CURRENT-CARRYING CAPACITIES OF INSULATED CONDUCTORS IN AMPERES

Not More Than Three Conductors in Raceway or Cable (Based on Room Temperature of 30° C., 86° F.)

Chapter 10, Table 1—1951 N. E. C. (for copper conductors)

Size AWG MCM	Rubber Type R Type RW Type RU Type RUW (14-2) Thermoplastic Type T Type TW	Rubber Type RH	Paper Thermoplastic Asbestos Type TA Var-Cam Type V Asbestos Var-Cam Type AVB	Asbestos Var-Cam Type AVA Type AVL	Impregnated Asbestos Type AI (14-8) Type AIA	Asbestos Type A (14-8) Type AA
14	15	15	25	30	30	30
12	20	20	30	35	40	40
10	30	30	40	45	50	55
8	40	45	50	60	65	70
6	55	65	70	80	85	95
4	70	85	90	105	115	120
3	80	100	105	120	130	145
2	95	115	120	135	145	165
1	110	130	140	160	170	190
0	125	150	155	190	200	225
00	145	175	185	215	230	250
000	165	200	210	245	265	285
0000	195	230	235	275	310	340
250	215	255	270	315	335	...
300	240	285	300	345	380	...
350	260	310	325	390	420	...
400	280	335	360	420	450	...
500	320	380	405	470	500	...
600	355	420	455	525	545	...
700	385	460	490	560	600	...
750	400	475	500	580	620	...
800	410	490	515	600	640	...
900	435	520	555	...	...	...
1000	455	545	585	680	730	...
1250	495	590	645	...	...	...
1500	520	625	700	785	...	...
1750	554	650	735	...	...	...
2000	560	665	775	840	...	...

CORRECTION FACTOR FOR ROOM TEMPERATURES OVER 30° C., 86° F.

°C.	°F.						
40	104	.82	.88	.90	.94	.95	...
45	113	.71	.82	.85	.90	.92	...
50	122	.58	.75	.80	.87	.89	...
55	131	.41	.67	.74	.83	.86	...
60	140	...	.58	.67	.79	.83	.91
70	158	...	.35	.52	.71	.76	.87
75	167	...	...	.43	.66	.72	.86
80	176	...	...	.30	.61	.69	.84
90	194	...	...	...	.50	.61	.80
100	212	...	...	...	...	.51	.77
120	248	...	...	...	...	...	.69
140	284	...	...	...	...	...	.59

TABLE 4—ALLOWABLE CURRENT-CARRYING CAPACITIES OF INSULATED CONDUCTORS IN AMPERES 1951 N.E.C.

Single Conductor in **Free Air**
(Based on Room Temperature of 30° C., 86° F.)

Size AWG MCM	Rubber Type R Type RW Type RU Type RUW (14-2) Thermoplastic Type T Type TW	Rubber Type RH	Thermoplastic Asbestos Type TA Var-Cam Type V Asbestos Var-Cam Type AVB	Asbestos Var-Cam Type AVA Type AVL	Impregnated Asbestos Type AI (14-8) Type AIA	Asbestos Type A (14-8) Type AA	Slow-Burning Type SB Weatherproof Type WP Type SBW
14	20	20	30	40	40	45	30
12	25	25	40	50	50	55	40
10	40	40	55	65	70	75	55
8	55	65	70	85	90	100	70
6	80	95	100	120	125	135	100
4	105	125	135	160	170	180	130
3	120	145	155	180	195	210	150
2	140	170	180	210	225	240	175
1	165	195	210	245	265	280	205
0	195	230	245	285	305	325	235
00	225	265	285	330	355	370	275
000	260	310	330	385	410	430	320
0000	300	360	385	445	475	510	370
250	340	405	425	495	530	...	410
300	375	445	480	555	590	...	460
350	420	505	530	610	655	...	510
400	455	545	575	665	710	...	555
500	515	620	660	765	815	...	630
600	575	690	740	855	910	...	710
700	630	755	815	940	1005	...	780
750	655	785	845	980	1045	...	810
800	680	815	880	1020	1085	...	845
900	730	870	940	...	...	...	905
1000	780	935	1000	1165	1240	...	965
1250	890	1065	1130	...	...	...	...
1500	980	1175	1260	1450	...	...	1215
1750	1070	1280	1370	...	...	...	...
2000	1155	1385	1470	1715	...	...	1405

CORRECTION FACTORS FOR ROOM TEMPERATURES OVER 30° C. (86° F.)

C.	F.							
40	104	.82	.88	.90	.94	.95	...	...
45	113	.71	.82	.85	.90	.92	...	...
50	122	.58	.75	.80	.87	.89	...	...
55	131	.41	.67	.74	.83	.86	...	...
60	140	...	.58	.67	.79	.83	.91	...
70	158	...	.35	.52	.71	.76	.87	...
75	167	...	...	.43	.66	.72	.86	...
80	176	...	...	.30	.61	.69	.84	...
90	194	...	...	...	.50	.61	.80	...
100	212	...	...	...	...	.51	.77	...
120	248	...	...	...	...	...	.69	...
140	284	...	...	...	...	...	.59	...

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NOTES TO TABLES 1 AND 2—Chapter 10, 1951 N. E. C.

4. **More Than Three Conductors in a Raceway.** Table 1 gives the allowable current-carrying capacity for not more than three conductors in a raceway or cable. If the number of conductors in a raceway or cable is from 4 to 6, the allowable current-carrying capacity of each conductor shall be reduced to 80 per cent of the values in Table 1. If the number of conductors in a raceway or cable is from 7 to 9, the allowable current-carrying capacity of each conductor shall be reduced to 70 per cent of the values in Table 1. (Exceptions to the foregoing are specified in sections 3624, 3745, and 7265.)

5. **Neutral Conductor.** A neutral conductor which carries only the unbalanced current from other conductors, as in the case of normally balanced circuits of three or more conductors, shall not be counted in determining current-carrying capacities as provided for in the preceding paragraph.

In a 3-wire circuit consisting of two phase wires and the neutral of a 4-wire, 3-phase system, a common conductor carries approximately the same current as the other conductors and is not, therefore, considered as a neutral conductor.

WIRE AND CONDUIT TABLES

TABLE 1—CONDUCTOR INSULATIONS 1951 N.E.C.

Trade Name	Type Letter	Insulation	Outer Covering
Rubber-Covered Fixture Wire—Solid or Stranded	**RF-64**	Code Rubber	Cotton
	RF-32	Code Rubber	Cotton
Rubber-Covered Fixture Wire—Flexible Stranding	**FF-64**	Code Rubber	Cotton or Rayon
	FF-32	Code Rubber	Cotton or Rayon
Latex Rubber Fixture Wire—Solid or Stranded	**RUFF**	90% Unmilled Grainless Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Flexible Stranding	**RUF**	90% Unmilled Grainless Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Thermoplastic-Covered Fixture Wire—Solid or Stranded	**TF**	Thermoplastic	None
Thermoplastic-Covered Fixture Wire—Flexible Stranding	**TFF**	Thermoplastic	None
Cotton-Covered, Heat-Resistant, Fixture Wire	**CF**	Impregnated Cotton	None
Asbestos-Covered, Heat-Resistant, Fixture Wire	**AF**	Impregnated Asbestos	None
Code	**R**	Code Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Heat-Resistant	**RH**	Heat-Resistant Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Moisture-Resistant	**RW**	Moisture-Resistant Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Latex Rubber	**RU**	90% Unmilled Grainless Rubber	Moisture-resistant, flame-retardant, non-metallic covering
	RUW	90% Unmilled Grainless Rubber	Moisture-resistant, flame-retardant, non-metallic covering
Thermoplastic	**T**	Flame-Retardant, Thermoplastic Compound	None
Moisture-Resistant Thermoplastic	**TW**	Flame-Retardant, Moisture-Resistant Thermoplastic	None
Thermoplastic and Asbestos	**TA**	Thermoplastic and Asbestos	Flame-retardant, cotton braid
Varnished Cambric	**V**	Varnished Cambric	Non-metallic covering or lead sheath
Asbestos and Varnished Cambric	**AVA**	Impregnated Asbestos and Varnished Cambric	14-8 solid AVA-asbestos braid
	AVL		AVL-asbestos braid and lead sheath.
Asbestos and Varnished Cambric	**AVB**	Impregnated Asbestos and Varnished Cambric	Flame-retardant, cotton braid
Asbestos	**A**	Asbestos	Without asbestos braid
Asbestos	**AA**	Asbestos	With asbestos braid
Asbestos	**AI**	Impregnated Asbestos	Without asbestos braid
Asbestos	**AIA**	Impregnated Asbestos	With asbestos braid
Slow Burning	**SB**	3 Braid Impregnated Fire Retardant, Cotton Thread	Outer cover finished smooth and hard
Slow-Burning Weatherproof	**SBW**	2 Layers Impregnated Cotton Thread	Outer fire-retardant coating
Weatherproof	**WP**	At least three Impregnated Cotton Braids or Equivalent	

TABLE 8—ALL ALUMINUM CONDUCTOR DATA

Conductor Size AWG	Equivalent Copper Size AWG	Diameter, Inches Bare Conductor	Diameter, Inches Covered Conductor	Wgt. per 1000 ft. Bare Conductor	Wgt. per 1000 ft. Covered Conductor	DC Resistance Ohms/1000 ft. at 20° C.
6 solid	8	.162	.256	24.2	46	.6480
4 solid	6	.204	.298	38.4	65	.4075
2 solid	4	.258	.352	61.1	93	.2563
6 str.	8	.184	.278	24.6	54	.6610
4 str.	6	.232	.326	39.2	75	.4157
2 str.	4	.292	.386	62.3	107	.2614
1 str.	3	.328	.453	78.6	144	.2073
1/0 str.	2	.368	.493	99.0	174	.1644
2/0 str.	1	.414	.539	124.9	210	.1304
3/0 str.	1/0	.464	.589	157.5	254	.1034
4/0 str.	2/0	.522	.647	198.6	302	.0820

NUMBER OF CONDUCTORS IN CONDUIT OR TUBING

Rubber Covered, Types RF-32, RUF, R, RH, RW, RU and RUW Thermoplastic, Types TF, T and TW

CHAPTER 10, TABLE 4—ONE TO NINE CONDUCTORS 1951 N.E.C.

For more than nine conductors, see Table 9.

(See Sections 3013, 3466 and 3486—1951 N.E.C.)

Size AWG MCM	Number of Conductors in One Conduit or Tubing 1	2	3	4	5	6	7	8	9
18	½	½	½	½	½	½	½	¾	¾
16	½	½	½	½	½	½	¾	¾	¾
14	½	½	½	½	¾	¾	1	1	1
12	½	½	½	¾	¾	1	1	1	1¼
10	½	¾	¾	¾	1	1	1	1¼	1¼
8	½	¾	¾	1	1¼	1¼	1¼	1½	1½
6	½	1	1	1¼	1½	1½	2	2	2
4	½	1¼	*1¼	1½	1½	2	2	2	2½
3	¾	1¼	1¼	1½	2	2	2	2½	2½
2	¾	1¼	1¼	2	2	2	2½	2½	2½
1	¾	1½	1½	2	2½	2½	2½	3	3
0	1	1½	2	2	2½	2½	3	3	3
00	1	2	2	2½	2½	3	3	3	3½
000	1	2	2	2½	3	3	3	3½	3½
0000	1¼	2	2½	3	3	3	3½	3½	4
250	1¼	2½	2½	3	3	3½	4	4	4½
300	1¼	2½	2½	3	3½	4	4	4½	4½
350	1¼	3	3	3½	3½	4	4½	4½	5
400	1½	3	3	3½	4	4	4½	5	5
500	1½	3	3	3½	4	4½	5	5	6
600	2	3½	3½	4	4½	5	6	6	6
700	2	3½	3½	4½	5	5	6	6	...
750	2	3½	3½	4½	5	6	6	6	...
800	2	3½	4	4½	5	6	6	...	...
900	2	4	4	5	6	6	6	...	...
1000	2	4	4	5	6	6	...	...	...
1250	2½	4½	4½	6	6	...	...	...	...
1500	3	5	5	6	...	...	...	...	...
1750	3	5	6	6	...	...	...	...	...
2000	3	6	6	...	...	...	...	...	...

See notes 4 and 5 following tables 1 and 2, Chapter 10, for reduction factor for more than 3 conductors.

* Where a service run of conduit or electrical metallic tubing does not exceed 50 feet in length and does not contain more than the equivalent of two quarter bends from end to end two No. 4 insulated and one No. 4 bare conductors may be installed in 1-inch conduit or tubing.

TABLE 6—IDENTIFYING MOTOR CODE LETTERS 1951 N.E.C.

Code Letter	Kilovolt-Amperes per Horsepower with Locked Rotor
A	0 — 3.14
B	3.15 — 3.54
C	3.55 — 3.99
D	4.0 — 4.49
E	4.5 — 4.99
F	5.0 — 5.59
G	5.6 — 6.29
H	6.3 — 7.09
J	7.1 — 7.99
K	8.0 — 8.99
L	9.0 — 9.99
M	10.0 — 11.19
N	11.2 — 12.49
P	12.5 — 13.99
R	14.0 — 15.99
S	16.0 — 17.99
T	18.0 — 19.99
U	20.0 — 22.39
V	22.4 — and up

FULL LOAD MOTOR CURRENTS

These tables are based on motor current tables of several leading motor manufacturers. Different types and makes of motors may vary 10% above or below the current values given in these tables. For fractional horsepower motors, this variation may be as large as 50%.

Caution: These tables are not intended for selection of overload relays. Overload relays should be selected in accordance with actual motor current as shown on the motor nameplate or as obtained from the motor manufacturer.

THREE PHASE A.C. MOTORS

60 Cycles, Single Speed, Normal Torque Induction Motors

H.P.	Syn. Speed	—Full Load Current— 110 V.	220 V.	440 V.	550 V.
1/6	1800	1.2	0.62	0.31	0.24
1/6	1200	1.6	0.80	0.40	0.32
1/4	1800	1.6	0.78	0.39	0.31
1/4	1200	2.2	1.10	0.54	0.43
1/3	1800	2.3	1.1	0.57	0.46
1/3	1200	2.8	1.4	0.70	0.56
1/2	3600	3.2	1.6	0.8	0.64
1/2	1800	3.6	1.8	0.9	0.72
1/2	1200	4.0	2.0	1.0	0.80
1/2	900	4.4	2.2	1.1	0.88
3/4	3600	4.6	2.3	1.1	0.9
3/4	1800	4.8	2.4	1.2	1.0
3/4	1200	4.8	2.4	1.2	1.0
3/4	900	5.0	2.5	1.2	1.0
1	3600	6.0	3.0	1.5	1.2
1	1800	6.0	3.0	1.5	1.2
1	1200	6.8	3.4	1.7	1.36
1	900	6.8	3.4	1.7	1.36
1½	3600	8.4	4.2	2.1	1.7
1½	1800	9.0	4.5	2.25	1.7
1½	1200	9.6	4.8	2.4	1.9
1½	900	11.2	5.6	2.8	2.3
2	3600	11.6	5.8	2.9	2.4
2	1800	11.4	5.7	2.85	2.3
2	1200	11.4	5.7	2.85	2.3
2	900	13.6	6.8	3.4	2.7
3	3600	16.8	8.4	4.2	3.4
3	1800	16.4	8.2	4.1	3.3
3	1200	16.4	8.2	4.1	3.3
3	900	19.0	9.5	4.75	3.8
5	3600	26.0	13.0	6.5	5.2
5	1800	26.0	13.0	6.5	5.2
5	1200	28.0	14.0	7.0	5.6
5	900	30.4	15.2	7.6	6.1
7½	3600	38.0	19.0	9.5	7.6
7½	1800	38.0	19.0	9.5	7.6
7½	1200	40.4	20.2	10.1	8.1
7½	900	44.0	22.0	11.0	8.8
10	1800	50.0	25.0	12.5	10.0
10	1200	53.0	26.5	13.3	10.6
10	900	56.0	28.0	14.0	11.2
10	600	64.0	32.0	16.0	12.8
15	1800	74.0	37.0	18.5	14.8
15	1200	77.0	38.0	19.3	15.4
15	900	82.0	41.0	20.5	16.4
15	600	92.0	46.0	23.0	18.4
20	1800	...	49.0	24.5	19.6
20	1200	...	50.0	25.0	20.0
20	900	...	53.0	26.5	21.2
20	600	...	59.0	29.5	23.5
25	1800	...	60.0	30.0	24.0
25	1200	...	62.5	31.2	25.0
25	900	...	65.5	33.0	26.2
25	600	...	73.5	36.7	29.0
30	1800	...	71.0	35.5	28.4
30	1200	...	75.0	38.0	30.0
30	900	...	75.0	38.0	30.0
30	600	...	89.0	45.0	36.0
40	1800	...	96.0	48.0	38.0
40	1200	...	97.5	49.0	39.0
40	900	...	103.0	52.0	41.0
40	600	...	111.0	56.0	44.0
50	1800	...	116.0	58.0	46.0
50	1200	...	120.0	60.0	48.0
50	900	...	125.0	63.0	50.0
60	1800	...	141.0	71.0	56.0
60	1200	...	144.0	72.0	58.0
60	900	...	149.0	75.0	60.0
75	1800	...	175.0	88.0	70.0
75	1200	...	180.0	90.0	72.0
75	900	...	183.0	92.0	73.0
100	1800	...	232.0	116.0	94.0
100	1200	...	236.0	118.0	95.0
100	900	...	241.0	120.0	96.0
125	1800	...	...	145.0	116.0
125	1200	...	...	144.0	116.0
125	900	...	...	147.0	118.0
150	1800	...	...	170.0	136.0
150	1200	...	...	170.0	136.0
150	900	...	...	177.0	142.0
200	1800	...	...	229.0	174.0
200	1200	...	...	229.0	184.0
200	900	...	...	230.0	184.0

TWO PHASE A.C. MOTORS

For 2-phase, 4-wire multiply the current values given for 3-phase motors by 0.866. For 2-phase, 3-wire systems, the current in the common wire is 1.41% of the values of the other two lines. The other two lines have the same current values as for 2-phase, 4-wire.

SINGLE PHASE A.C. MOTORS

H.P.	Syn. Speed	Full Load Current 115 V.	230 V.
1/8	3600	2.4	1.2
1/8	1800	2.8	1.4
1/8	1200	3.4	1.7
1/6	3600	2.8	1.4
1/6	1800	3.0	1.5
1/6	1200	3.8	1.9
1/6	900	4.6	2.3
1/4	3600	3.6	1.8
1/4	1800	4.2	2.1
1/4	1200	5.0	2.5
1/4	900	6.4	3.2
1/3	3600	4.4	2.2
1/3	1800	5.0	2.5
1/3	1200	6.0	3.0
1/3	900	7.2	3.6
1/2	3600	6.4	3.2
1/2	1800	7.2	3.6
1/2	1200	8.4	4.2
1/2	900	10.4	5.2
3/4	3600	8.8	4.4
3/4	1800	10.0	5.0
3/4	1200	12.0	6.0
3/4	900	13.6	6.8
1	3600	11.6	5.8
1	1800	12.4	6.2
1	1200	14.0	7.0
1	900	14.8	7.4
1½	3600	17.6	8.8
1½	1800	18.2	9.1
1½	1200	20.6	10.3
1½	900	24.6	12.3
2	3600	22.4	11.2
2	1800	23.4	11.7
2	1200	26.0	13.0
2	900	30.0	15.0
3	3600	32.0	16.0
3	1800	33.6	16.8
3	1200	36.0	18.0
3	900	40.0	20.0
5	3600	50.0	25.0
5	1800	52.0	26.0
5	1200	56.0	28.0
5	900	66.0	33.0
7½	3600	74.0	37.0
7½	1800	76.0	38.0
7½	1200	80.0	40.0
7½	900	92.0	46.0
10	3600	88.0	44.0
10	1800	90.0	45.0
10	1200	94.0	47.0
10	900	100.0	5.0

DIRECT CURRENT MOTORS

H.P.	Full Load Current 115 V.	250 V.	550 V.
½	4.6	2.3	.96
¾	6.6	3.3	1.4
1	8.2	4.1	1.7
1½	12.2	6.1	2.5
2	16.0	8.0	3.4
3	24.0	12.0	5.0
5	39.0	19.5	8.2
7½	56.0	28.0	12.0
10	76.0	37.7	16.0
15	112.0	56.0	23.5
20	148.0	74.0	31.0
25	184.0	92.0	38.0
30	216.0	108.0	45.0
35	258.0	129.0	54.0
40	...	143.0	60.0
50	...	176.0	73.0
60	...	214.0	90.0
75	...	265.0	115.0
100	...	...	146.0
125	...	...	184.0
150	...	...	220.0

SWITCH SIZES FOR MOTOR BRANCH CIRCUITS

SELECTION TABLES

The table below is based on the ratings in horsepower of switches with standard types of fuses as covered by the N.E.C. fusing tables. For motors larger than 50 H.P., general use switches (non-horsepower rated switches) may be used in accordance with Paragraph 4402-d, 1951 N.E.C., and may be selected as follows:

Fusible—Based on maximum fuse values as shown on page 104 for standard fuses, but the switch rating should be at least 25% in excess of the motor full load current.

Not Fusible—The switch rating should be at least 115% of the motor full load current.

In accordance with N.E.M.A. standard recommended practice, continuous duty fusible switches having constant load, should be selected so as to have a rating at least 50% in excess of the ampere load.

Full Load Current of Motor-Amps.	Single Phase				2 Phase, 4-Wire				—3 Phase—					
	120 Volts		240 Volts		240 Volts		460 Volts		240 Volts		460 Volts		575 Volts	
	Fusible	Not Fusible	Fusible	Not Fusible	Fusible	Not Fusible	Fusible	Not Fusible	Fusible	Not Fusible	Fusible	Not Fusible	Fusible	Not Fusible
1	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
2	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
3	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
4	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
5	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
6	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
7	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
8	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
9	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
10	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A	30A
12	60A	30A	60A	30A	30A	30A	60A	30A	60A	30A	60A	30A	60A	30A
14	60A	30A	60A	30A	60A	60A	60A	60A	60A	30A	60A	30A	60A	60A
16	60A	30A	60A	30A	60A	60A	60A	60A	60A	30A	60A	30A	60A	60A
18	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A
20	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A	60A
22	100A	60A	60A	60A	* 60A	60A	* 60A	60A	* 60A	60A	* 60A	60A	100A	60A
24	100A	60A	60A	60A	* 60A	60A	100A	60A	100A	60A	* 60A	60A	100A	60A
26	100A	60A	60A	60A	100A	60A	100A	60A	100A	60A	* 60A	60A	100A	60A
28	100A	60A	60A	60A	100A	60A	100A	60A	100A	100A	100A	60A	100A	100A
30	100A	60A	100A	60A	100A	60A	100A	100A	100A	100A	100A	60A	100A	100A
32	100A	60A	100A	60A	100A	60A	100A	100A	100A	100A	100A	60A	200A	100A
34	200A	60A	100A	60A	*100A	100A	*100A	100A	*100A	100A	*100A	100A	200A	100A
36	200A	60A	100A	60A	*100A	100A	200A	100A	*100A	100A	*100A	100A	200A	100A
38	200A	60A	100A	60A	*100A	100A	200A	100A	*100A	100A	*100A	100A	200A	100A
40	200A	60A	100A	60A	*100A	100A	200A	100A	*100A	100A	*100A	100A	200A	100A
42	200A	60A	100A	100A	*100A	100A	200A	100A	200A	100A	200A	100A	200A	200A
44	200A	60A	100A	100A	*100A	100A	200A	100A	200A	100A	200A	100A	200A	200A
46	200A	60A	100A	100A	200A	100A	200A	200A	200A	100A	200A	100A	200A	200A
48	200A	60A	100A	100A	200A	100A	200A	200A	200A	100A	200A	100A	200A	200A
50	200A	60A	100A	100A	200A	100A	200A	200A	200A	100A	200A	100A	200A	200A
52	200A	60A	200A	100A	200A	100A	200A	200A	200A	100A	200A	100A	200A	200A
54	200A	100A	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A
56	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
58	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
60	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
62	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
64	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
66	200A	100A	200A	100A	200A	200A	200A	200A	200A	200A	200A	200A	200A	200A
68	400A	100A	200A	100A	400A	200A	*200A	200A	*200A	200A	200A	200A	200A	200A
70	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
72	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
74	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
76	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
78	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
80	400A	100A	400A	200A	400A	200A	*200A	200A	*200A	200A	*200A	200A	*200A	200A
82	400A	100A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
84	400A	100A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
86	400A	100A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
88	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
90	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
92	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
94	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	*200A	*200A	200A
96	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
98	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
100	400A	200A	400A	200A	400A	200A	*200A	200A	400A	200A	*200A	200A	*200A	200A
105	400A	200A	400A	200A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
110	400A	200A	400A	200A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
115	400A	200A	400A	400A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
120	400A	200A	400A	400A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
125	400A	200A	400A	400A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
130	400A	200A	400A	400A	400A	200A	400A	200A	400A	400A	400A	200A	400A	200A
135	600A	200A	400A	400A	*400A	200A	*400A	200A	*400A	400A	*400A	200A	*400A	200A
140	600A	200A	600A	400A	*400A	200A	*400A	200A	*400A	400A	*400A	200A	*400A	200A
145	600A	200A	600A	400A	*400A	200A	*400A	200A	*400A	400A	*400A	200A	*400A	200A
150	600A	200A	600A	400A	*400A	200A	*500A	200A	*400A	400A	*400A	200A	*400A	200A

* For squirrel cage and synchronous motors (full voltage, reactor and resistor starting), the next larger size switch should be used if the maximum permitted fusing is desired.

When the switch recommended by the table above is provided with fuse clips for fuses larger than the maximum shown on page 219, the inspection authority having jurisdiction may permit larger fuses, or fuse adapters may be employed to accommodate the required fuses, or appropriate fuses may be used in accordance with par. 4346 N.E.C.

CIRCUIT BREAKER, WIRE AND FUSE SIZES

SELECTION TABLES

For Motor Branch Circuits—Adapted from 1951 N.E. Code

FOR FUSIBLE AND NONFUSIBLE SWITCH SIZES

For exceptions, see note at head of table 20, 1951 N.E.C., also see paragraphs 4312, 4314, 4324, 4342, and 4349 of 1951 N.E.C.

Full load current rating of motor	† Min. allowable size of copper conductor A.W.G. or Cir. Mil. in Raceways		† For running protection of motors		‡ Guide for Selecting Fuse Sizes or Circuit Breaker Trip Ratings for Motors Without Code Letters					
					Single phase, squirrel-cage, and synchronous, (full voltage, reactor and resistor starting)			Squirrel cage and synchronous (auto-transformer starting)		
	Type R, RW, RU, RUW		Max. setting nonadjust-able protective devices	Max. setting adjustable protective devices	† Max. allowable rating of br. circuit fuses	● Max. allowable circuit breaker rating	★ Recom-mended minimum circuit breaker rating	† Max. allowable rating of br. circuit fuses	Max. allowable circuit br. rating squirrel cage and synchon-ous (auto-transformer starting)	★ Recom-mended minimum circuit breaker rating
Amps.	Thermo-Plastic Type T 14-4/0 Type TW 14-4/0	Type RH	Amps.	Amps.	Amps.	Amps.	Amps.	Amps.	Amps.	Amps.
1**	14	14	2*	1.25*	15	15	15	15	15	15
2**	14	14	3*	2.50*	15	15	15	15	15	15
3**	14	14	4*	3.75*	15	15	15	15	15	15
4**	14	14	6*	5.00*	15	15	15	15	15	15
5**	14	14	8*	6.25*	15	15	15	15	15	15
6**	14	14	8*	7.50*	20	15	15	15	15	15
7	14	14	10*	8.75*	25	20	15	20	15	15
8	14	14	10*	10.00*	25	20	15	20	20	15
9	14	14	12*	11.25*	30	30	20	25	20	20
10	14	14	15*	12.50*	30	30	20	25	20	20
12	14	14	15	15.00	40	30	20	30	30	20
14	12	12	20	17.50	45	40	30	35	30	30
16	12	12	20	20.00	50	40	30	40	40	30
18	10	10	25	22.50	60	50	40	45	40	40
20	10	10	25	25.00	60	50	40	50	40	40
22	10	10	30	27.50	70	70	40	60	50	40
24	10	10	30	30.00	80	70	50	60	50	50
26	8	8	35	32.50	80	70	50	70	70	50
28	8	8	35	35.00	90	70	50	70	70	50
30	8	8	40	37.50	90	100	50	70	70	50
32	8	8	40	40.00	100	100	70	70	70	50
34	6	8	45	42.50	110	100	70	70	70	70
36	6	8	45	45.00	110	100	70	80	100	70
38	6	6	50	47.50	125	100	70	80	100	70
40	6	6	50	50.00	125	100	70	80	100	70
42	6	6	50	52.50	125	125	70	90	100	70
44	6	6	60	55.00	125	125	70	90	100	70
46	4	6	60	57.50	150	125	100	100	100	100
48	4	6	60	60.00	150	125	100	100	100	100
50	4	6	60	62.50	150	125	100	100	100	100
52	4	6	70	65.00	175	150	100	110	125	100
54	4	4	70	67.50	175	150	100	110	125	100
56	4	4	70	70.00	175	150	100	120	125	100
58	3	4	70	72.50	175	150	100	120	125	100
60	3	4	80	75.00	200	150	100	120	125	100
62	3	4	80	77.50	200	175	100	125	125	100
64	3	4	80	80.00	200	175	100	150	150	100
66	2	4	80	82.50	200	175	100	150	150	100
68	2	4	90	85.00	225	175	125	150	150	125
70	2	3	90	87.50	225	175	125	150	150	125
72	2	3	90	90.00	225	200	125	150	150	125
74	2	3	90	92.50	225	200	125	150	150	125
76	2	3	100	95.00	250	200	125	175	175	125
78	1	3	100	97.50	250	200	125	175	175	125
80	1	3	100	100.00	250	200	125	175	175	125
82	1	2	110	102.50	250	225	125	175	175	125
84	1	2	110	105.00	250	225	150	175	175	150
86	1	2	110	107.50	300	225	150	175	175	150
88	1	2	110	110.00	300	225	150	200	200	150
90	0	2	110	112.50	300	225	150	200	200	150
92	0	2	125	115.00	300	250	150	200	200	150
94	0	1	125	117.50	300	250	150	200	200	150
96	0	1	125	120.00	300	250	150	200	200	150
98	0	1	125	122.50	300	250	150	200	200	150
100	0	1	125	125.00	300	250	175	200	200	150
105	00	1	150	131.50	350	300	175	225	225	175
110	00	0	150	137.5	350	300	175	225	225	175
115	00	0	150	144.0	350	300	175	250	250	175
120	000	0	150	150.0	400	300	200	250	250	200
125	000	00	175	156.5	400	350	200	250	250	200
130	000	00	175	162.5	400	350	200	300	300	200
135	0000	00	175	169.0	450	350	225	300	300	225
140	0000	00	175	175.0	450	350	225	300	300	225
145	0000	000	200	181.5	450	400	225	300	300	225
150	0000	000	200	187.5	450	400	225	300	300	225

* For the running protection of motors of 1 H.P. and less see Section 4322 N.E. Code.

** For the fusing of small motors under the protection of a single set of fuses see Section 4343 N.E. Code.

† Adapted from Table 20, Chaper 10, 1951 N.E. Code.

● Adapted from Table 27, Chapter 10, 1951 N.E. Code.

‡ The 1951 N.E.C. classifies motors by code letters. Where code-marked motors are employed, refer to 1951 N.E. Code, Tables 20 and 26.

★ For light or medium starting duty.

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